

# Package ‘okxr’

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**Title** R Interface to the 'OKX' REST API

**Version** 0.2.4

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**Description** Provides lightweight R wrappers for the 'OKX' REST API, covering endpoints for market data, trading, account management, asset balances, and copy trading. The upstream API reference is available at <<https://www.okx.com/docs-v5/en/>>.

**License** MIT + file LICENSE

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wrappers\_get\_asset.R wrappers\_get\_account.R  
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`okxr-package`*okxr: R Interface to the OKX REST API*

---

## Description

'okxr' provides lightweight wrappers for selected OKX REST API endpoints, including market data, account information, asset metadata, order-book trade queries, trading actions, and copy-trading endpoints.

## Details

Public market and public reference endpoints can be called without credentials. Private account, asset, trade, and copy-trading endpoints require an OKX API credential list with 'api\_key', 'secret\_key', and 'passphrase' entries.

If 'config\$demo' is 'TRUE', signed requests include OKX's simulated trading header. Request timeout defaults to 10 seconds and can be set globally with 'set\_okxr\_options(timeout = 15)' or per request with 'config\$timeout'.

By default, wrappers return parsed 'data.table' objects. Use 'set\_okxr\_options(raw\_data = TRUE)' to return raw API 'data' payloads instead.

Network failures, request timeouts, OKX error responses, or empty API 'data' payloads may return 'NULL' with a warning. Live API examples are intentionally non-running because they require credentials, network access, and may have account-specific side effects.

## Author(s)

**Maintainer:** Oliver Zhou <oliver.yxzhou@gmail.com>

## See Also

[set\_okxr\_options()], [get\_market\_candles()], [post\_trade\_order()]

---

`.build_request`*Build a full OKX request object*

---

## Description

Assemble URL, headers, and body for an OKX API call.

**Usage**

```
.build_request(
    htr_method,
    base_url,
    api_path,
    query_string,
    config = NULL,
    body_json = "",
    auth = TRUE
)
```

**Arguments**

<code>htr_method</code>	HTTP method ("GET" or "POST").
<code>base_url</code>	Base URL of the OKX API.
<code>api_path</code>	API path (e.g., "/api/v5/account/balance").
<code>query_string</code>	Query string starting with "?" or empty.
<code>config</code>	List with API credentials.
<code>body_json</code>	Optional JSON string for POST body.
<code>auth</code>	Logical. Whether to sign the request with OKX credentials.

**Value**

A list with elements: 'method', 'url', 'full\_path', 'headers', and 'body\_json'.

---

<code>.execute_get_action</code>	<i>Execute a GET request to OKX</i>
----------------------------------	-------------------------------------

---

**Description**

Perform a signed GET call to the OKX API.

**Usage**

```
.execute_get_action(api_path, query_string, config = NULL, auth = TRUE)
```

**Arguments**

<code>api_path</code>	API path (e.g., "/api/v5/account/balance").
<code>query_string</code>	Query string starting with "?" or empty.
<code>config</code>	List with API credentials.
<code>auth</code>	Logical. Whether to sign the request with OKX credentials.

**Value**

An 'htr' response object, or 'NULL' if the request fails.

---

`.execute_post_action` *Execute a POST request to OKX*

---

### Description

Perform a signed POST call to the OKX API.

### Usage

```
.execute_post_action(api_path, body_list, config)
```

### Arguments

<code>api_path</code>	API path (e.g., <code>"/api/v5/trade/order"</code> ).
<code>body_list</code>	List to be converted to JSON for the request body.
<code>config</code>	List with API credentials.

### Value

An `'httr'` response object, or `'NULL'` if the request fails.

---

`.get_headers` *Create OKX API request headers*

---

### Description

Generate the required signed headers for an OKX REST request.

### Usage

```
.get_headers(config, httr_method, httr_path, body_json = "")
```

### Arguments

<code>config</code>	List with <code>'api_key'</code> , <code>'secret_key'</code> , and <code>'passphrase'</code> .
<code>httr_method</code>	HTTP method as a string (e.g., <code>"GET"</code> or <code>"POST"</code> ).
<code>httr_path</code>	Path portion of the API endpoint.
<code>body_json</code>	Optional JSON string of the request body.

### Value

A `'httr::add_headers'` object containing the signed headers.

---

get\_account\_balance    *Get account balance*

---

### Description

Retrieve account-level margin and equity information for your OKX account.

### Usage

```
get_account_balance(config, tz = .okx_default_tz)
```

### Arguments

config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'. May also include 'base_url'.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Details

This wraps '/api/v5/account/balance'. Returns one row per account-level equity snapshot. Timestamps are parsed into 'POSIXct' in the given 'tz'.

### Value

A 'data.frame' with account balance and margin metrics (e.g., 'totalEq', 'isoEq', 'adjEq', 'availEq', 'ordFroz', 'imr', 'mmr', 'upl', 'mgnRatio', ...). Timestamp columns ('uTime') are 'POSIXct'.

### Note

Since okxr 0.1.1

### See Also

[get\_account\_positions()], [get\_account\_leverage\_info()]

Other okxr-account: [get\\_account\\_config\(\)](#), [get\\_account\\_leverage\\_info\(\)](#), [get\\_account\\_positions\\_history\(\)](#), [get\\_account\\_positions\(\)](#)

### Examples

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
bal <- get_account_balance(config = cfg)
head(bal)

## End(Not run)
```

---

get_account_bills	<i>Get account bills</i>
-------------------	--------------------------

---

**Description**

Retrieve account bill details from the last 7 days.

**Usage**

```
get_account_bills(  
    inst_type = NULL,  
    ccy = NULL,  
    mgn_mode = NULL,  
    ct_type = NULL,  
    type = NULL,  
    sub_type = NULL,  
    after = NULL,  
    before = NULL,  
    limit = NULL,  
    config,  
    tz = .okx_default_tz  
)
```

**Arguments**

inst_type	Character or 'NULL'. Instrument type filter.
ccy	Character or 'NULL'. Currency filter.
mgn_mode	Character or 'NULL'. Margin mode filter.
ct_type	Character or 'NULL'. Contract type filter.
type	Character or 'NULL'. Bill type filter.
sub_type	Character or 'NULL'. Bill subtype filter.
after	Character or 'NULL'. Pagination cursor for earlier records.
before	Character or 'NULL'. Pagination cursor for newer records.
limit	Integer or 'NULL'. Number of rows to request.
config	List. API credentials/config.
tz	Character. Time zone for parsing timestamps. Default "'Asia/Hong_Kong"'.

**Value**

A 'data.frame' with account bill rows.

---

```
get_account_bills_archive
```

*Get archived account bills*

---

### Description

Retrieve archived account bill details.

### Usage

```
get_account_bills_archive(
    inst_type = NULL,
    ccy = NULL,
    mgn_mode = NULL,
    ct_type = NULL,
    type = NULL,
    sub_type = NULL,
    after = NULL,
    before = NULL,
    limit = NULL,
    config,
    tz = .okx_default_tz
)
```

### Arguments

<code>inst_type</code>	Character or 'NULL'. Instrument type filter.
<code>ccy</code>	Character or 'NULL'. Currency filter.
<code>mgn_mode</code>	Character or 'NULL'. Margin mode filter.
<code>ct_type</code>	Character or 'NULL'. Contract type filter.
<code>type</code>	Character or 'NULL'. Bill type filter.
<code>sub_type</code>	Character or 'NULL'. Bill subtype filter.
<code>after</code>	Character or 'NULL'. Pagination cursor for earlier records.
<code>before</code>	Character or 'NULL'. Pagination cursor for newer records.
<code>limit</code>	Integer or 'NULL'. Number of rows to request.
<code>config</code>	List. API credentials/config.
<code>tz</code>	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Value

A 'data.frame' with archived account bill rows.

---

get\_account\_config     *Get account configuration*

---

### Description

Retrieve account-level configuration information.

### Usage

```
get_account_config(config, tz = .okx_default_tz)
```

### Arguments

config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Details

Wraps '/api/v5/account/config'. Includes account ID, mode, and position mode flags. Returns one row.

### Value

A 'data.frame' with columns like 'uid', 'mainUid', 'acctLv', 'posMode', 'autoLoan', etc.

### Note

Since okxr 0.1.2

### See Also

[get\_account\_balance()], [get\_account\_leverage\_info()]

Other okxr-account: [get\\_account\\_balance\(\)](#), [get\\_account\\_leverage\\_info\(\)](#), [get\\_account\\_positions\\_history\(\)](#), [get\\_account\\_positions\(\)](#)

### Examples

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
cfg_info <- get_account_config(config = cfg)
cfg_info

## End(Not run)
```

---

get\_account\_leverage\_info  
*Get account leverage settings*

---

### Description

Retrieve leverage configuration for a given instrument and margin mode.

### Usage

```
get_account_leverage_info(inst_id, mgn_mode, config, tz = .okx_default_tz)
```

### Arguments

inst_id	Character. Instrument ID, e.g. "BTC-USDT".
mgn_mode	Character. Margin mode. One of "cross" or "isolated".
config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Details

Wraps '/api/v5/account/leverage-info'. Requires both 'inst\_id' and 'mgn\_mode'. Returns current leverage values (numeric).

### Value

A 'data.frame' with columns 'instId', 'mgnMode', 'posSide', and 'lever'.

### Note

Since okxr 0.1.1

### See Also

[[get\\_account\\_balance\(\)](#)], [[get\\_account\\_positions\(\)](#)]  
Other okxr-account: [get\\_account\\_balance\(\)](#), [get\\_account\\_config\(\)](#), [get\\_account\\_positions\\_history\(\)](#), [get\\_account\\_positions\(\)](#)

### Examples

```
## Not run:  
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")  
get_account_leverage_info(  
  inst_id = "BTC-USDT",  
  mgn_mode = "cross",  
  config = cfg
```

```
)  
## End(Not run)
```

---

get\_account\_positions *Get account open positions*

---

## Description

Retrieve all currently open positions under the account.

## Usage

```
get_account_positions(config, tz = .okx_default_tz)
```

## Arguments

config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'.
tz	Character. Time zone for parsing timestamps. Default "'Asia/Hong_Kong"'.

## Details

Wraps '/api/v5/account/positions'. Returns one row per open position.

## Value

A 'data.frame' with columns such as 'instId', 'posId', 'posSide', 'pos', 'lever', 'avgPx', 'markPx', 'upl', 'realizedPnl', etc. Timestamps ('cTime', 'uTime') are 'POSIXct'.

## Note

Since okxr 0.1.1

## See Also

[get\_account\_balance()], [get\_account\_positions\_history()]

Other okxr-account: [get\\_account\\_balance\(\)](#), [get\\_account\\_config\(\)](#), [get\\_account\\_leverage\\_info\(\)](#), [get\\_account\\_positions\\_history\(\)](#)

## Examples

```
## Not run:  
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")  
pos <- get_account_positions(config = cfg)  
pos  
  
## End(Not run)
```

---

get\_account\_positions\_history  
*Get account position history*

---

### Description

Retrieve historical records of closed or adjusted positions.

### Usage

```
get_account_positions_history(config, tz = .okx_default_tz)
```

### Arguments

config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Details

Wraps '/api/v5/account/positions-history'. Includes closed positions and their realized PnL. Returns one row per historical record.

### Value

A 'data.frame' with columns such as 'instId', 'posId', 'posSide', 'pos', 'lever', 'realizedPnl', 'fee', plus timestamp fields ('cTime', 'uTime').

### Note

Since okxr 0.1.1

### See Also

[get\_account\_positions()]

Other okxr-account: [get\\_account\\_balance\(\)](#), [get\\_account\\_config\(\)](#), [get\\_account\\_leverage\\_info\(\)](#), [get\\_account\\_positions\(\)](#)

### Examples

```
## Not run:  
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")  
hist <- get_account_positions_history(config = cfg)  
tail(hist)  
  
## End(Not run)
```

---

get\_asset\_balances     *Get asset balances*

---

**Description**

Retrieves the available, total, and frozen balance for each asset in the account.

**Usage**

```
get_asset_balances(config, tz = .okx_default_tz)
```

**Arguments**

config	API credentials as a list with api_key, secret_key, and passphrase.
tz	Timezone string (default: "Asia/Hong_Kong").

**Value**

A data.frame with balances per currency.

---

get\_asset\_currencies     *Get funding currencies*

---

**Description**

Retrieve currencies available to the current account.

**Usage**

```
get_asset_currencies(ccy = NULL, config, tz = .okx_default_tz)
```

**Arguments**

ccy	Character or 'NULL'. Single currency or comma-separated currencies.
config	API credentials as a list with api_key, secret_key, and passphrase.
tz	Timezone string (default: "Asia/Hong_Kong").

**Value**

A data.frame with currency and chain metadata.

---

`get_asset_deposit_address`*Get deposit address*

---

**Description**

Retrieve deposit addresses for a currency.

**Usage**

```
get_asset_deposit_address(ccy, config, tz = .okx_default_tz)
```

**Arguments**

<code>ccy</code>	Character. Currency, e.g. "BTC" or "USDT".
<code>config</code>	API credentials as a list with <code>api_key</code> , <code>secret_key</code> , and <code>passphrase</code> .
<code>tz</code>	Timezone string (default: "Asia/Hong_Kong").

**Value**

A data.frame with deposit address rows.

---

`get_asset_deposit_history`*Get asset deposit history*

---

**Description**

Retrieves a record of all asset deposits made to your account.

**Usage**

```
get_asset_deposit_history(config, tz = .okx_default_tz)
```

**Arguments**

<code>config</code>	API credentials as a list with <code>api_key</code> , <code>secret_key</code> , and <code>passphrase</code> .
<code>tz</code>	Timezone string (default: "Asia/Hong_Kong").

**Value**

A data.frame with deposit timestamps, amounts, and currencies.

---

get\_asset\_withdrawal\_history  
*Get asset withdrawal history*

---

**Description**

Retrieves a record of all asset withdrawals from your account.

**Usage**

```
get_asset_withdrawal_history(config, tz = .okx_default_tz)
```

**Arguments**

config            API credentials as a list with api\_key, secret\_key, and passphrase.  
tz                Timezone string (default: "Asia/Hong\_Kong").

**Value**

A data.frame with withdrawal timestamps, amounts, and currencies.

---

get\_copy\_trade\_current\_subpos  
*Get current copy trading subpositions*

---

**Description**

Retrieve your currently active subpositions under copy trading.

**Usage**

```
get_copy_trade_current_subpos(config, tz = .okx_default_tz)
```

**Arguments**

config            List. API credentials/config, typically containing 'api\_key', 'secret\_key', and 'passphrase'.  
tz                Character. Time zone for parsing timestamps. Default "Asia/Hong\_Kong".

**Details**

Wraps '/api/v5/copytrading/current-subpositions'. Returns one row per subposition, associated with the relevant lead trader.

**Value**

A 'data.frame' with fields like 'instId' and 'uniqueCode'.

**Note**

Since okxr 0.1.2

**See Also**

[get\_copy\_trade\_historical\_subpos()]

Other okxr-copytrading: [get\\_copy\\_trade\\_historical\\_subpos\(\)](#), [get\\_copy\\_trade\\_my\\_leaders\(\)](#), [get\\_copy\\_trade\\_settings\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
get_copy_trade_current_subpos(config = cfg)

## End(Not run)
```

---

get\_copy\_trade\_historical\_subpos

*Get historical copy trading subpositions*

---

**Description**

Retrieve your historical copy trading subpositions.

**Usage**

```
get_copy_trade_historical_subpos(config, tz = .okx_default_tz)
```

**Arguments**

config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'.
tz	Character. Time zone for parsing timestamps. Default "'Asia/Hong_Kong"'.

**Details**

Wraps '/api/v5/copytrading/subpositions-history'. Returns one row per closed or historical subposition.

**Value**

A 'data.frame' with fields like 'instId' and 'uniqueCode'.

**Note**

Since okxr 0.1.2

**See Also**

[get\_copy\_trade\_current\_subpos()]

Other okxr-copytrading: [get\\_copy\\_trade\\_current\\_subpos\(\)](#), [get\\_copy\\_trade\\_my\\_leaders\(\)](#), [get\\_copy\\_trade\\_settings\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
hist <- get_copy_trade_historical_subpos(config = cfg)
head(hist)

## End(Not run)
```

---

```
get_copy_trade_my_leaders
      Get my lead traders
```

---

**Description**

Retrieve the list of lead traders you are currently copying.

**Usage**

```
get_copy_trade_my_leaders(
  inst_type = NULL,
  config,
  tz = .okx_default_tz,
  instType = inst_type
)
```

**Arguments**

inst_type	Character or 'NULL'. Filter by instrument type (e.g., "SWAP", "MARGIN", "SPOT"). If 'NULL', returns all.
config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".
instType	Deprecated alias for 'inst_type'.

**Details**

Wraps `/api/v5/copytrading/current-lead-traders`. Returns one row per lead trader followed by your account.

**Value**

A `'data.frame'` with fields such as `'nickName'` and `'uniqueCode'`.

**Note**

Since okxr 0.1.2

**See Also**

[[get\\_copy\\_trade\\_settings\(\)](#)], [[get\\_copy\\_trade\\_current\\_subpos\(\)](#)]

Other okxr-copytrading: [get\\_copy\\_trade\\_current\\_subpos\(\)](#), [get\\_copy\\_trade\\_historical\\_subpos\(\)](#), [get\\_copy\\_trade\\_settings\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
get_copy_trade_my_leaders(inst_type = "SWAP", config = cfg)

## End(Not run)
```

---

```
get_copy_trade_settings
      Get copy trading settings
```

---

**Description**

Retrieve your account's copy trading configuration.

**Usage**

```
get_copy_trade_settings(  
  unique_code,  
  config,  
  tz = .okx_default_tz,  
  uniqueCode = unique_code  
)
```

**Arguments**

unique_code	Character. Lead trader unique code.
config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'.
tz	Character. Time zone for parsing timestamps. Default "'Asia/Hong_Kong"'.
uniqueCode	Deprecated alias for 'unique_code'.

**Details**

Wraps '/api/v5/copytrading/copy-settings'. Returns one row with the current copy mode and copy state for the given 'unique\_code'.

**Value**

A 'data.frame' with fields like 'copyMode' and 'copyState'.

**Note**

Since okxr 0.1.2

**See Also**

[get\_copy\_trade\_my\_leaders()], [get\_copy\_trade\_current\_subpos()]

Other okxr-copytrading: [get\\_copy\\_trade\\_current\\_subpos\(\)](#), [get\\_copy\\_trade\\_historical\\_subpos\(\)](#), [get\\_copy\\_trade\\_my\\_leaders\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
get_copy_trade_settings(unique_code = "1129E65755274C36", config = cfg)

## End(Not run)
```

---

get_market_books	<i>Get order book</i>
------------------	-----------------------

---

**Description**

Retrieve the current order book for an instrument.

**Usage**

```
get_market_books(inst_id, sz = NULL, config = NULL, tz = .okx_default_tz)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "BTC-USDT".
sz	Integer or 'NULL'. Order book depth. If 'NULL', OKX uses its endpoint default.
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A 'data.frame' with JSON-encoded 'asks' and 'bids' columns plus 'ts'.

---

get\_market\_candles      *Get recent market candles*

---

**Description**

Retrieve the latest candlestick data for a given instrument and bar size.

**Usage**

```
get_market_candles(
  inst_id,
  bar,
  limit = 100L,
  config = NULL,
  tz = .okx_default_tz,
  standardize_names = TRUE
)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "BTC-USDT", "ETH-USDT-SWAP".
bar	Character. Candlestick granularity, e.g. "1m", "5m", "1H", "1D".
limit	Integer. Number of bars to retrieve. Default '100L'.
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".
standardize_names	Logical. If 'TRUE' (default), renames columns to 'timestamp', 'open', 'high', 'low', 'close', 'volume', 'volQuote'.

**Details**

Wraps '/api/v5/market/candles'. Returns up to 'limit' bars, sorted by timestamp. Candlestick fields can be standardized to common OHLCV names via 'standardize\_names = TRUE'.

**Value**

A 'data.frame' with columns including 'timestamp', 'open', 'high', 'low', 'close', 'volume', and 'volQuote'. Timestamps are 'POSIXct' in 'tz'.

**Note**

Since okxr 0.1.1

**See Also**

[get\_market\_history\_candles()], [get\_public\_mark\_price()]

Other okxr-market: [get\\_market\\_history\\_candles\(\)](#), [get\\_public\\_instruments\(\)](#), [get\\_public\\_mark\\_price\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
get_market_candles("BTC-USDT", bar = "5m", limit = 50, config = cfg)

## End(Not run)
```

---

get\_market\_history\_candles

*Get historical market candles*

---

**Description**

Retrieve candlestick data before a specific datetime.

**Usage**

```
get_market_history_candles(
  inst_id,
  bar,
  before = NULL,
  limit = 100L,
  config = NULL,
  tz = .okx_default_tz,
  standardize_names = TRUE
)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "BTC-USDT".
bar	Character. Candlestick granularity, e.g. "1m", "5m", "1H".
before	Character or 'NULL'. Timestamp string in format "%Y-%m-%d %H:%M:%S". If 'NULL' (default), fetches most recent history.
limit	Integer. Number of bars to retrieve. Default '100L'.
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".
standardize_names	Logical. If 'TRUE' (default), renames columns to 'timestamp', 'open', 'high', 'low', 'close', 'volume', 'volQuote'.

**Details**

Wraps '/api/v5/market/history-candles'. If 'before' is supplied, it is converted to milliseconds since epoch (in 'tz') and sent as 'after=...' (per OKX semantics: \*return data before this time\*).

**Value**

A 'data.frame' of candlestick bars with standardized column names if 'standardize\_names = TRUE'. Timestamps are 'POSIXct' in 'tz'.

**Note**

Since okxr 0.1.1

**See Also**

[get\_market\_candles()]

Other okxr-market: [get\\_market\\_candles\(\)](#), [get\\_public\\_instruments\(\)](#), [get\\_public\\_mark\\_price\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
get_market_history_candles(
  "ETH-USDT-SWAP", bar = "1H",
  before = "2025-08-20 00:00:00", config = cfg
)

## End(Not run)
```

---

get\_market\_history\_trades  
*Get historical public trades*

---

**Description**

Retrieve public trade history for an instrument.

**Usage**

```
get_market_history_trades(  
    inst_id,  
    type = NULL,  
    after = NULL,  
    before = NULL,  
    limit = NULL,  
    config = NULL,  
    tz = .okx_default_tz  
)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "BTC-USDT".
type	Character or 'NULL'. Pagination type, using OKX values.
after	Character or 'NULL'. Pagination cursor for earlier records.
before	Character or 'NULL'. Pagination cursor for newer records.
limit	Integer or 'NULL'. Number of rows to request.
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A 'data.frame' with historical public trades.

---

get\_market\_ticker      *Get market ticker*

---

**Description**

Retrieve the latest ticker snapshot for a specific instrument.

**Usage**

```
get_market_ticker(inst_id, config = NULL, tz = .okx_default_tz)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "BTC-USDT" or "ETH-USDT-SWAP".
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A 'data.frame' with the latest ticker fields returned by OKX.

---

get_market_tickers	<i>Get market tickers</i>
--------------------	---------------------------

---

**Description**

Retrieve ticker snapshots for all instruments under an instrument type.

**Usage**

```
get_market_tickers(
  inst_type,
  uly = NULL,
  inst_family = NULL,
  config = NULL,
  tz = .okx_default_tz
)
```

**Arguments**

inst_type	Character. Instrument type, e.g. "SPOT", "SWAP", "FUTURES", or "OPTION".
uly	Character or 'NULL'. Underlying. Optional filter for derivatives.
inst_family	Character or 'NULL'. Instrument family. Optional filter for derivatives and options.
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A 'data.frame' with one row per ticker.

---

get\_market\_trades      *Get recent public trades*

---

### Description

Retrieve recent public trades for an instrument.

### Usage

```
get_market_trades(inst_id, limit = NULL, config = NULL, tz = .okx_default_tz)
```

### Arguments

inst_id	Character. Instrument ID, e.g. "BTC-USDT".
limit	Integer or 'NULL'. Number of rows to request.
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Value

A 'data.frame' with recent public trades.

---

get\_public\_funding\_rate  
*Get current funding rate*

---

### Description

Retrieve the current funding rate for a perpetual swap instrument.

### Usage

```
get_public_funding_rate(inst_id, config = NULL, tz = .okx_default_tz)
```

### Arguments

inst_id	Character. Instrument ID, e.g. "BTC-USDT-SWAP".
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Value

A 'data.frame' containing the current funding rate fields returned by OKX.

```
get_public_funding_rate_history
    Get funding rate history
```

---

**Description**

Retrieve historical funding rate entries for a perpetual swap instrument.

**Usage**

```
get_public_funding_rate_history(  
    inst_id,  
    before = NULL,  
    after = NULL,  
    limit = 400,  
    config = NULL,  
    tz = .okx_default_tz  
)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "BTC-USDT-SWAP".
before	Optional cursor for records earlier than the supplied value.
after	Optional cursor for records later than the supplied value.
limit	Integer. Number of records to request. Default '400'.
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A 'data.frame' containing funding rate history rows returned by OKX.

---

```
get_public_instruments
    Get instrument metadata
```

---

**Description**

Retrieve metadata for instruments of a given type.

**Usage**

```
get_public_instruments(
  inst_id = NULL,
  inst_type = "SWAP",
  config = NULL,
  tz = .okx_default_tz
)
```

**Arguments**

inst_id	Character or 'NULL'. Specific instrument ID to query. Use 'NULL' to fetch all instruments of 'inst_type'.
inst_type	Character. Instrument type. One of "SPOT", "MARGIN", "SWAP" (default), "FUTURES", "OPTION".
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Details**

Wraps `/api/v5/public/instruments`. Returns one row per instrument, including contract specifications, tick size, lot size, expiry, and state.

**Value**

A 'data.frame' with instrument metadata (e.g., 'instType', 'instId', 'uly', 'baseCcy', 'quoteCcy', 'settleCcy', 'ctVal', 'ctMult', 'tickSz', 'lotSz', 'minSz', 'expTime', 'lever', 'state', ...).

**Note**

Since okxr 0.1.2

**See Also**

[[get\\_public\\_mark\\_price\(\)](#)]

Other okxr-market: [get\\_market\\_candles\(\)](#), [get\\_market\\_history\\_candles\(\)](#), [get\\_public\\_mark\\_price\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
# Get metadata for all SWAP instruments
df <- get_public_instruments(inst_type = "SWAP", config = cfg)

# Get metadata for one instrument
get_public_instruments("ETH-USDT-SWAP", inst_type = "SWAP", config = cfg)

## End(Not run)
```

---

get\_public\_mark\_price *Get current mark price*

---

### Description

Retrieve the current mark price for a given instrument.

### Usage

```
get_public_mark_price(  
    inst_id,  
    inst_type = "SWAP",  
    config = NULL,  
    tz = .okx_default_tz  
)
```

### Arguments

inst_id	Character. Instrument ID, e.g. "BTC-USDT", "ETH-USDT-SWAP".
inst_type	Character. Instrument type. One of "SPOT", "MARGIN", "SWAP" (default), "FUTURES", "OPTION".
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Details

Wraps '/api/v5/public/mark-price'. Useful for margin calculations and PnL estimation. Returns a single row with the latest mark price and timestamp.

### Value

A 'data.frame' with columns 'timestamp', 'instId', 'markPx'.

### Note

Since okxr 0.1.1

### See Also

[get\_public\_instruments()]

Other okxr-market: [get\\_market\\_candles\(\)](#), [get\\_market\\_history\\_candles\(\)](#), [get\\_public\\_instruments\(\)](#)

## Examples

```
## Not run:  
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")  
get_public_mark_price("BTC-USDT", inst_type = "SWAP", config = cfg)  
  
## End(Not run)
```

---

```
get_public_open_interest  
      Get open interest
```

---

## Description

Retrieve current open interest for an instrument.

## Usage

```
get_public_open_interest(  
  inst_id,  
  inst_type,  
  config = NULL,  
  tz = .okx_default_tz  
)
```

## Arguments

inst_id	Character. Instrument ID, e.g. "BTC-USDT-SWAP".
inst_type	Character. Instrument type such as "SWAP" or "FUTURES".
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

## Value

A 'data.frame' containing open interest fields returned by OKX.

---

get\_public\_price\_limit  
*Get price limit*

---

**Description**

Retrieve buy and sell price limits for an instrument.

**Usage**

```
get_public_price_limit(inst_id, config = NULL, tz = .okx_default_tz)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "BTC-USDT-SWAP".
config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A 'data.frame' with price limit fields.

---

get\_public\_time      *Get OKX system time*

---

**Description**

Retrieve OKX system time.

**Usage**

```
get_public_time(config = NULL, tz = .okx_default_tz)
```

**Arguments**

config	Optional list. Public endpoint request options, such as 'timeout'; credentials are not required.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A one-row 'data.frame' with system time.

---

get_trade_fills	<i>Get trade fills</i>
-----------------	------------------------

---

### Description

Retrieve recently filled transaction details from the last 3 days.

### Usage

```
get_trade_fills(  
    inst_type = NULL,  
    inst_family = NULL,  
    inst_id = NULL,  
    ord_id = NULL,  
    sub_type = NULL,  
    after = NULL,  
    before = NULL,  
    limit = NULL,  
    config,  
    tz = .okx_default_tz  
)
```

### Arguments

inst_type	Character or 'NULL'. Instrument type filter.
inst_family	Character or 'NULL'. Instrument family filter.
inst_id	Character or 'NULL'. Instrument ID filter.
ord_id	Character or 'NULL'. Order ID filter.
sub_type	Character or 'NULL'. Transaction subtype filter.
after	Character or 'NULL'. Pagination cursor for earlier records.
before	Character or 'NULL'. Pagination cursor for newer records.
limit	Integer or 'NULL'. Number of rows to request.
config	List. API credentials/config.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

### Value

A 'data.frame' with fill rows.

---

`get_trade_fills_history`*Get trade fills history*

---

**Description**

Retrieve historical filled transaction details from the last 3 months.

**Usage**

```
get_trade_fills_history(  
    inst_type,  
    inst_family = NULL,  
    inst_id = NULL,  
    ord_id = NULL,  
    sub_type = NULL,  
    after = NULL,  
    before = NULL,  
    limit = NULL,  
    config,  
    tz = .okx_default_tz  
)
```

**Arguments**

<code>inst_type</code>	Character. Instrument type, e.g. "SPOT" or "SWAP".
<code>inst_family</code>	Character or 'NULL'. Instrument family filter.
<code>inst_id</code>	Character or 'NULL'. Instrument ID filter.
<code>ord_id</code>	Character or 'NULL'. Order ID filter.
<code>sub_type</code>	Character or 'NULL'. Transaction subtype filter.
<code>after</code>	Character or 'NULL'. Pagination cursor for earlier records.
<code>before</code>	Character or 'NULL'. Pagination cursor for newer records.
<code>limit</code>	Integer or 'NULL'. Number of rows to request.
<code>config</code>	List. API credentials/config.
<code>tz</code>	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Value**

A 'data.frame' with historical fill rows.

---

get_trade_order	<i>Get trade order details</i>
-----------------	--------------------------------

---

**Description**

Retrieve detailed information about a specific OKX order by either the exchange-assigned 'ord\_id' or your client-assigned 'cl\_ord\_id'.

**Usage**

```
get_trade_order(
    inst_id,
    ord_id = NULL,
    cl_ord_id = NULL,
    config,
    tz = .okx_default_tz
)
```

**Arguments**

inst_id	Character. Instrument ID, e.g. "ETH-USDT-SWAP" (perps), "BTC-USDT" (spot), or "BTC-USD-240927" (dated futures).
ord_id	Character, optional. The OKX order ID. Provide this <b>**or**</b> 'cl_ord_id'.
cl_ord_id	Character, optional. Your client order ID. Provide this <b>**or**</b> 'ord_id'.
config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'. May also include 'base_url'.
tz	Character. Time zone for parsing timestamps. Default "Asia/Hong_Kong".

**Details**

You must provide exactly one identifier: 'ord\_id' **\*\*or\*\*** 'cl\_ord\_id'. Timestamps in the response are converted to 'POSIXct' in the supplied 'tz'.

**Value**

A 'data.frame' (one row) with order details following OKX schema (e.g., 'ordId', 'clOrdId', 'instId', 'ordType', 'px', 'sz', 'side', 'posSide', 'tdMode', 'accFillSz', 'fillPx', 'fillSz', 'fillTime', 'avgPx', 'state', 'lever', etc.). Timestamp columns are 'POSIXct' in 'tz'.

**Common errors**

- 'Either 'ord\_id' or 'cl\_ord\_id' must be provided.' (client-side) - HTTP 401 Unauthorized (missing/invalid credentials) - OKX 'code' like '51000' invalid sign or '51603' order not found

**Note**

Since okxr 0.1.1

**See Also**

[get\_trade\_orders\_pending()], [get\_trade\_orders\_history\_7d()]

Other okxr-trade: [get\\_trade\\_orders\\_history\\_7d\(\)](#), [get\\_trade\\_orders\\_pending\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
get_trade_order(
  inst_id = "ETH-USDT-SWAP",
  ord_id = "1234567890",
  config = cfg
)

## End(Not run)
```

---

get\_trade\_orders\_history\_7d

*Get trade orders history (last 7 days)*

---

**Description**

Retrieve recent order history (up to ~7 days) for the specified instrument type. This wraps `‘/api/v5/trade/orders-history’`. For older data, OKX provides an archive endpoint (`‘orders-history-archive’`) which is not covered here.

**Usage**

```
get_trade_orders_history_7d(inst_type = "SWAP", config, tz = .okx_default_tz)
```

**Arguments**

inst_type	Character. Instrument type. One of <code>“SPOT”</code> , <code>“MARGIN”</code> , <code>“SWAP”</code> , <code>“FUTURES”</code> , <code>“OPTION”</code> . Default <code>“SWAP”</code> .
config	List. API credentials/config, typically containing <code>‘api_key’</code> , <code>‘secret_key’</code> , and <code>‘passphrase’</code> . May also include <code>‘base_url’</code> .
tz	Character. Time zone for parsing timestamps (e.g. <code>“Asia/Hong_Kong”</code> ).

**Value**

A `‘data.frame’` with one row per historical order and columns following the OKX schema (same layout as pending orders, plus final states). Timestamp columns are `‘POSIXct’` in `‘tz’`.

**Common errors**

- HTTP 401 Unauthorized (missing/invalid credentials) - HTTP 400 Bad Request (invalid `‘inst_type’`)

**Note**

Since okxr 0.1.2

**See Also**

[get\_trade\_order()], [get\_trade\_orders\_pending()]

Other okxr-trade: [get\\_trade\\_orders\\_pending\(\)](#), [get\\_trade\\_order\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
hist <- get_trade_orders_history_7d(inst_type = "SWAP", config = cfg, tz = "Asia/Hong_Kong")
tail(hist)

## End(Not run)
```

---

get\_trade\_orders\_pending

*Get all pending trade orders*

---

**Description**

Retrieve all currently open (unfilled) orders for your OKX account.

**Usage**

```
get_trade_orders_pending(config, tz = .okx_default_tz)
```

**Arguments**

config	List. API credentials/config, typically containing 'api_key', 'secret_key', and 'passphrase'. May also include 'base_url'.
tz	Character. Time zone for parsing timestamps (e.g. "Asia/Hong_Kong").

**Details**

Returns one row per open order. Timestamps are parsed to 'POSIXct' using 'tz'.

**Value**

A 'data.frame' with one row per pending order and columns following the OKX schema (e.g., 'cTime', 'ordId', 'clOrdId', 'tag', 'instId', 'ordType', 'px', 'sz', 'side', 'posSide', 'tdMode', 'accFillSz', 'fillPx', 'fillSz', 'fillTime', 'avgPx', 'state', 'lever', ...). Timestamp columns are 'POSIXct'.

**Common errors**

- HTTP 401 Unauthorized (missing/invalid credentials) - Rate limiting: HTTP 429 / OKX throttle codes

**Note**

Since okxr 0.1.1

**See Also**

[get\_trade\_order()], [get\_trade\_orders\_history\_7d()]

Other okxr-trade: [get\\_trade\\_orders\\_history\\_7d\(\)](#), [get\\_trade\\_order\(\)](#)

**Examples**

```
## Not run:
cfg <- list(api_key = "xxx", secret_key = "xxx", passphrase = "xxx")
df <- get_trade_orders_pending(config = cfg, tz = "Asia/Hong_Kong")
head(df)

## End(Not run)
```

---

get\_var\_label

*Retrieve variable labels from OKX data frames*

---

**Description**

Returns human-readable labels attached to a data frame produced by OKX API parsers. You can retrieve all labels or a label for a specific variable by name or index.

**Usage**

```
get_var_label(df, var = NULL, default = NA_character_)
```

**Arguments**

df	A data.frame with "var_labels" attribute (as returned by OKX API parsers).
var	Optional variable name (character) or index (numeric). If NULL, all labels are returned.
default	Value to return if the variable has no label (default: NA_character_).

**Value**

A character label if var is provided, or a named character vector of all labels if var = NULL.

### Examples

```
df <- data.frame(ordId = "123", px = 10)
attr(df, "var_labels") <- c(ordId = "Order ID", px = "Price")

get_var_label(df, "ordId")
get_var_label(df, 2)
get_var_label(df)
```

---

post\_account\_set\_leverage  
*Set Account Leverage*

---

### Description

Sets the leverage level for a specific trading instrument and margin mode.

### Usage

```
post_account_set_leverage(  
  inst_id,  
  lever,  
  mgn_mode,  
  pos_side = NULL,  
  tz = .okx_default_tz,  
  config  
)
```

### Arguments

inst_id	Instrument ID (e.g., "BTC-USDT").
lever	Leverage level to apply (as a string or numeric, e.g., "10").
mgn_mode	Margin mode: "cross" or "isolated".
pos_side	Optional. Position side: "long" or "short". Required for isolated mode.
tz	Timezone used for any timestamp parsing (default: "Asia/Hong_Kong").
config	A list containing API credentials: api_key, secret_key, and passphrase.

### Value

A data.frame with leverage update confirmation (including instrument ID and leverage settings).

---

`post_trade_cancel_order`*Cancel a Trade Order*

---

**Description**

Submits a cancellation request for a previously placed trade order.

**Usage**

```
post_trade_cancel_order(inst_id, ord_id, config, tz = .okx_default_tz)
```

**Arguments**

<code>inst_id</code>	Instrument ID (e.g., "BTC-USDT").
<code>ord_id</code>	Order ID to cancel. Alternatively, you can modify the function to accept <code>clOrdId</code> .
<code>config</code>	A list with API credentials: <code>api_key</code> , <code>secret_key</code> , <code>passphrase</code> .
<code>tz</code>	Timezone for parsing any timestamps (default: "Asia/Hong_Kong").

**Value**

A `data.frame` containing cancellation result and timestamp.

---

`post_trade_close_position`*Close a Position*

---

**Description**

Submits a request to close a position for a given instrument and position side.

**Usage**

```
post_trade_close_position(  
  inst_id,  
  mgn_mode,  
  pos_side,  
  tz = .okx_default_tz,  
  config  
)
```

**Arguments**

inst_id	Instrument ID (e.g., "BTC-USDT").
mgn_mode	Margin mode: "cross" or "isolated".
pos_side	Position side to close: "long" or "short".
tz	Timezone for parsing any timestamps (default: "Asia/Hong_Kong").
config	A list with API credentials: api_key, secret_key, passphrase.

**Value**

A data.frame with close position confirmation details.

---

post_trade_order	<i>Place a Trade Order</i>
------------------	----------------------------

---

**Description**

Submits a trade order to the OKX exchange.

**Usage**

```
post_trade_order(
  inst_id,
  td_mode,
  side,
  ord_type,
  sz,
  pos_side = NULL,
  px = NULL,
  reduce_only = NULL,
  tgt_ccy = NULL,
  cl_ord_id = NULL,
  tag = NULL,
  config,
  tz = .okx_default_tz
)
```

**Arguments**

inst_id	Instrument ID (e.g., "BTC-USDT").
td_mode	Trade mode: "cross" or "isolated".
side	Order side: "buy" or "sell".
ord_type	Order type: "limit", "market", etc.
sz	Size of the order (quantity to buy/sell).
pos_side	Optional. Position side: "long" or "short".

px	Optional. Price (required for limit orders).
reduce_only	Optional. Logical flag to indicate a reduce-only order.
tgt_ccy	Optional. Quote currency (e.g., "base", "quote").
cl_ord_id	Optional. Custom client order ID (auto-generated if NULL).
tag	Optional. Tag used for identifying the strategy or bot.
config	A list with API credentials: api_key, secret_key, passphrase.
tz	Timezone for parsing any timestamps (default: "Asia/Hong_Kong").

**Value**

A data.frame containing fields like order ID, client order ID, and timestamp.

---

set_okxr_options	<i>Set or get okxr options</i>
------------------	--------------------------------

---

**Description**

Convenience wrapper to set global options for okxr, such as whether to return raw data instead of parsed data.

**Usage**

```
set_okxr_options(raw_data = NULL, timeout = NULL)
```

**Arguments**

raw_data	Logical. Whether functions should return raw data (default = FALSE). If 'NULL', the current value is left unchanged.
timeout	Numeric. HTTP request timeout in seconds. If 'NULL', the current value is left unchanged.

**Value**

An invisible named list with the current package options: 'raw\_data' (logical) and 'timeout' (numeric seconds). This return value can be used to inspect the effective option state after updating it.

**Examples**

```
old <- getOption("okxr.raw_data")
old_timeout <- getOption("okxr.timeout")
set_okxr_options(raw_data = TRUE)
set_okxr_options(timeout = 5)
options(okxr.raw_data = old, okxr.timeout = old_timeout)

set_okxr_options() # check current values
```

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