

# Outdoor TVs

**COMPATIBLE SKUS:**

SHD2-43    SHD2-65    UB4-50    UB4-85  
 SHD2-55    SHD2-75    UB4-65

## Communication Parameters

IP Version	IPV4
Transport Layer	TCP over HTTP
Port	3000



## Getting connected

1. Insert an ethernet cable into the LAN port on the television and connect the other end to your home network.
2. Navigate the on-screen menu on the television to the Ethernet menu, located at Menu->Network->Ethernet
3. Change Type to Static if you plan to assign an IP address to the unit, otherwise DHCP is enabled by default. For static IP installations Enter the information in the required fields.
4. Press 'Enter' to connect to the network.
5. IP address will be displayed in the Network Menu. **FOR STATIC IP ADDRESSES: The display should be power cycled after the new IP Address information is entered in order to ensure proper control system operation.**

## Example Command

Example:

TV IP address is 192.168.1.120

Send power on command "PWD:1"

**HTTP Request:**

```
POST / HTTP/1.1
Host: 192.168.1.120 ← Host will be the IP address of the TV.
Content-Type: application/json
Accept: application/json, text/plain
Body:
{
  "command": "PWD:1",
  "id": 1 ← Optional ID to track multiple commands and responses
}
```

**HTTP Response:**

```
HTTP/1.1 200 OK
Content-Type: application/json
Body:
{
  "id": 1, ←Return ID from a request ONLY if id was provided in the POST request
  "result": "SUCCESS", ←Based on command: SUCCESS, INVALID VALUE, INVALID JSON, UPDATE
  "state":
  {
    "power": 1, ←TV on = 1, TV off = 0
    "input": 3, ←Current input (# = input, table still needs to be made)
    "channel": "24.2", ←Current Tuner TV channel. Primary.Secondary for digital channel
    "volume": 35, ←Current volume 0-100
    "mute":0 ←Mute on = 1, Mute off = 0
  },
  "info":
  {
    "model": "SHD2-55A", ←Model information to be set during production
    "serial": "SHD2-55A-S-19501234", ←Serial information to be set during production
    "firmware": "1.13", ←Read from firmware
    "runtime": 35.4 ←Runtime (in hours)
  }
}
```

## POWER

	COMMAND
POWER ON	PWD:1
POWER OFF	PWD:0
POWER TOGGLE	PWD:3
POWER STATUS QUERY	PWD:?

## INPUTS

	COMMAND
INPUT QUERY	INP:?
TV	INP:0
HDMI 1	INP:1
HDMI 2	INP:2
HDMI 3	INP:3
COMPONENT	INP:4
AV	INP:5
USB MEDIA	INP:7
QUERY	INP:?

## CHANNEL

	COMMAND
INCREASE CHANNEL	CHA:+
DECREASE CHANNEL	CHA:-
SET CHANNEL	CHA:XX.Y*
CHANNEL STATUS QUERY	CHA:?

\*X and Y are numbers 0-9

## VOLUME

	COMMAND
VOLUME UP	VOL:+
VOLUME DOWN	VOL:-
SET VOLUME	VOL:XX*
VOLUME STATUS QUERY	VOL:?
MUTE ON	MUT:1
MUTE OFF	MUT:0
MUTE TOGGLE	MUT:3
MUTE STATUS QUERY	MUT:?

\*X and Y are numbers 0-9