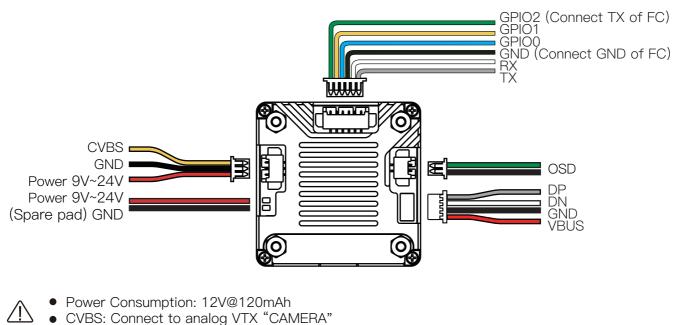
FN-FT483

Quick Start Guide

V1.0



Connection



OSD Functions

port or "CVBS IN" port

--80

The movement allows you to customize the OSD string of the video display through an external menu The OSD board is divided into four directions: up, down, left, right and center. Operating Instructions: 1. Connect the menu board to the movement 2. Wait for the movement to power on the picture

3. Press the center button, the operation interface will pop up, the operation interface is divided into four lines, the first line and the second line is to provide a choice of characters, the third line is to

- delete the option, the fourth line is the current character, the black background is the current cursor position 4. Press up, down, left or right to move the cursor in the character line, and press center to select the character to be inserted into the current string. 5. move the cursor to DEL, press the center, you can delete the last character in the string, all clear
- the current string will become [NA], this time that there is no character 6. Move the cursor to the fourth line of the current character line, press the center key to exit the

operation. This is the string if not empty, the lower left corner will have the current settings string

Serial Communication Description

TX Master transmit, 3.3V level, baud rate default 115200bps **RX** Master receive, 3.3V level, baud rate default 115200bps

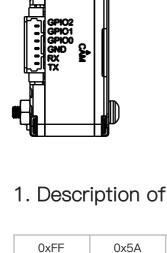
version

(1Byte)

header (10Byte)

cmd

(2Byte)



(1Byte)

GND	Reference Ground
GPIO0	General Purpose IO, 3.3V level
GPIO1	General Purpose IO, 3.3V level
GPIO2	General Purpose IO, 3.3V level
Agreement	t

payload_len

(4Byte)

payload

crc16

(2Byte)

(1Byte)

1.1 Field Description		
0xFF: constant value		
0x5A: constant value		

sub_cmd

(1Byte)

sub_cmd: subcommand payload_len: Payload data length

cmd: Command id

payload: Data content crc16: Checksum value with header and payload

while(length--)

else

crc ^= *data++; for (i = 0; i < 8; ++i)

if (crc & 1)

version: Protocol version (initial version 0)

1.2 Calibration Function crc16_code static uint16_t crc16_modbus(uint8_t *data, uint32_t length) uint8_t i; uint16_t crc = 0xffff; // Initial value

crc = (crc >> 1);return crc; 2. Command Definition host → dev: The host computer sends to the device dev→host: The device sends to the host computer 2.1 Getting the Version payload_len sub_cmd Directional cmd Instruction (Byte)

0

Ν

Returns the firmware

version string

Instruction

1Byte brightness value (0–100), no payload without setting only return the actual brightness value

Instruction

Set the pseudo-color serial number,

0 is off pseudo-color

Instruction

Close Hot Tracking

Open Hot Tracking

Command Data

// crc ^= *data; data++;

 $crc = (crc >> 1) ^ 0xA001; // 0xA001 = reverse 0x8005$

2.2 Image Adjustment

1

0

0

sub_cmd

0

0

0

host->dev

dev->host

Directional cmd

host->dev

dev->host	1	0	1	Returns the current brightness value
host->dev	1	1	1/0	1Byte contrast value (0-100), no payload not set only return the actual contrast value
dev->host	1	1	1	Returns the current contrast value
2.3 Pseud	o–Co	olor		
Directional	cmd	sub emd	payload_len	Instruction

(Byte)

1

payload_len

(Byte)

1/0

2.4 Shutter Control

host->dev

Directional cmd sub_cmd

2

0

sub_cmd

0

1

Directional	cmd	sub_cmd	payload_len (Byte)	Instruction
host->dev	3	0	1	Manual shutter calibration image
host->dev	3	1	1	Disable automatic shutter calibration
host->dev	3	2	1	Enable automatic shutter calibration
2.5 Hot Tr	ackiı	na		

payload_len

(Byte)

1

1

3. Example of Command

Command Description

Directional cmd

host->dev

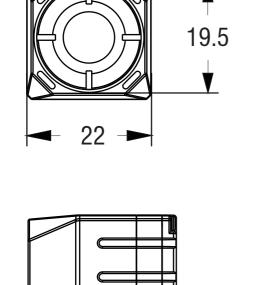
host->dev

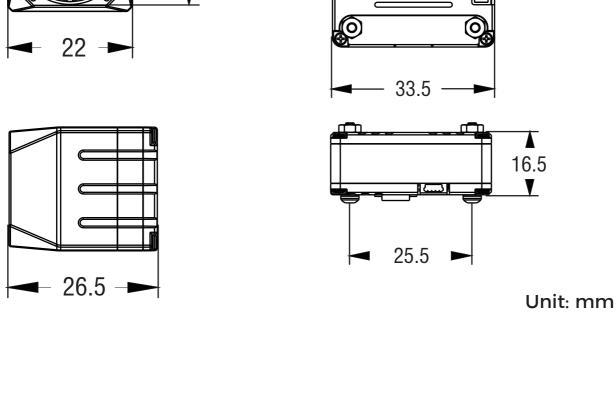
4

4

Get version	FF 5A 00 00 00 00 00 00 00 C7 57
Set the contrast to 80%	FF 5A 00 01 00 01 01 00 00 00 50 EB 73
Set the contrast to 50%	FF 5A 00 01 00 01 01 00 00 00 32 6A 9A
Set the brightness to 80%	FF 5A 00 01 00 00 01 00 00 00 50 EA A2
Set the brightness to 50%	FF 5A 00 01 00 00 01 00 00 00 32 6B 4B
Set pseudo color 5	FF 5A 00 02 00 00 01 00 00 00 05 6A 88
Set pseudo color 0	FF 5A 00 02 00 00 01 00 00 00 00 AA 8B
Shutter Calibration	FF 5A 00 03 00 00 00 00 00 F4 57
Disable Auto Shutter	FF 5A 00 03 00 01 00 00 00 00 C9 97
Enable Auto Shutter	FF 5A 00 03 00 02 00 00 00 00 8D 97

Dimensions





Specifications Model

Sensor

Resolution

LENS FOV Frame Rate **Power Consumption** Output Supply Voltage Temperature Interface Latency Image Quality

F1.0/7mm 55.4°(H)*40.8°(V)*68.8°(D) 50fps <1.5w PAL

Uncooled Vanadium Oxide

9V~24V -20°C~60°C Analog Interface: CVBS Average Latency 20ms

Allmage Enhancement

FN-FT483

400x300