

MSP 200PRO Quick Start



- Touch Screen control
- Output a range of signal types
- Set and select from a range of common output formats
- Audio output test included
- Genlock Y&HS outputs
- Input live signals for preview and inspection
- Test using MPEG from USB media as source
- On board test pattern generator
- On board time code generator
- Genlock Y input
- Remote control via USB connection
- Preview digital input source on the display
- Output (pass through) digital input source for signal testing

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Product Introduction

Format and Test Pattern Generation are just two of the many features of MSP 200PRO. MSP 200PRO allows on board preview of an HDMI (or optionally SDI) source along with format inspection. There is wave form monitoring and video monitoring capabilities too. Popular test patterns can be easy selected with motion or without, and time code can be generated and displayed allowing inspection frame delay. MSP 200PRO also includes a USB media input port as standard – use a MPEG4 or image as a test signal source, opening up many possibilities for producing bespoke testing configurations.

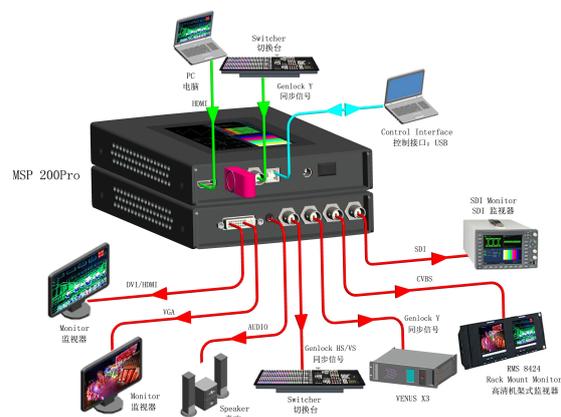
Outputs as standard are (up to) 3G-SDI, CVBS and DVI, with DVI supporting both HDMI and VGA signals also.

Genlock is integrated too.

A compact touch friendly device MSP 200PRO is the essential device for the AV professional.

System Connection

RGBlink offers solutions to demanding technical problems. Any application questions, or required further information, please contact with our customer Support Engineers.



MSP 200PRO System Connection Diagram

Packing Configuration

AC Power Cord



Flight Case



**Lithium Ion
Battery**



**Warranty Card
& USB Files**



Screw Driver



QC Declaration



Note:

The lithium ion battery is optional.

Hardware Orientation

Interface Instruction



Input Connectors

7	HDMI Input HDMI-A Port
8	USB Input USB-A Port
9	Genlock Input BNC Port

Output Connectors

1	3G-SDI Output BNC Port
2	CVBS Output BNC Port
3.4	Genlock Output BNC Port
5	Genlock Output
6	DVI Output DVI-I port

Control Connectors

10	USB interface USB-B port
11	Reset

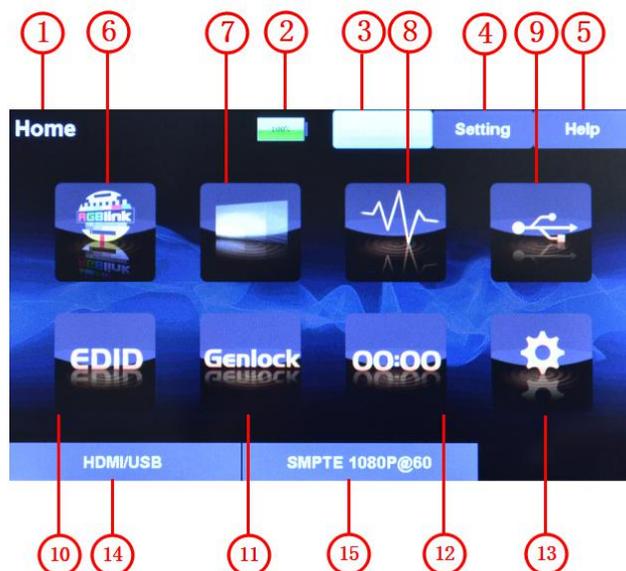
Power Connection

12	Standard 12V/3A power supply.
13	Power Switch

Using Your Product

Understanding the Display

Turn the power switch to the ON position, the LCD touch display will show the start-up interface and show the default menu after completing initialization as below:



Introduce for the above information:

1	Display the current operation.
2	Battery icon, display the current capacity of the battery.
3	“Home” button, push the button in any operation interface, it will return to the home interface.
4	“Setting” button. MSP 200PRO V1.0 can not support this function.
5	“Help” button. MSP 200PRO V1.0 can not support this function.
6	Test pattern icon.
7	Output resolution icon.
8	Signal quality icon.
9	USB player icon.
10	EDID management icon.
11	Genlock icon.
12	Timer code icon.
13	Settings icon.
14	Display the current input module that fitted.

	Display "NO MODEL" if there is no module. Display "HDMI/USB" if the HDMI+USB module is fitted. Display "SDI" if the SDI module is fitted. Display "HDMI(RGB)" if the HDMI(RGB) module is fitted.
15	Display the current output resolution (the output format is defaulted to SMPTE 1080P@60).

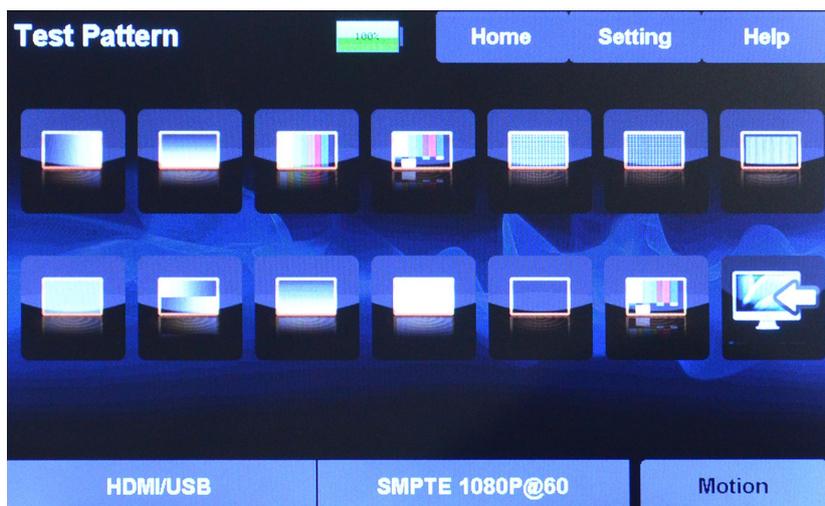
Understanding the Menus

Touch any menu icon in default menu, the LCD touch display will enter to the next level menus as follows:

Test Pattern



Touch the test pattern icon, the LCD touch display will show 14 kinds of test patterns, as shown in the figure below:



	H_RAMP
	V_RAMP
	COL_BAR_100%
	COL_BAR_75%
	GRID_16_16
	GRID_32_32
	BURST
	GRAY_50%

	GRAY_STEP_1
	GRAY_STEP_2
	WHITE
	BLACK
	SMPTE COL BAR
	Output the external video (or the video in the UDisk) to the monitor.
	Live or freeze the image in the test pattern mode (the first 13 icons).

Output Resolution

Touch the output resolution icon , the LCD touch display will show the menus as follows:

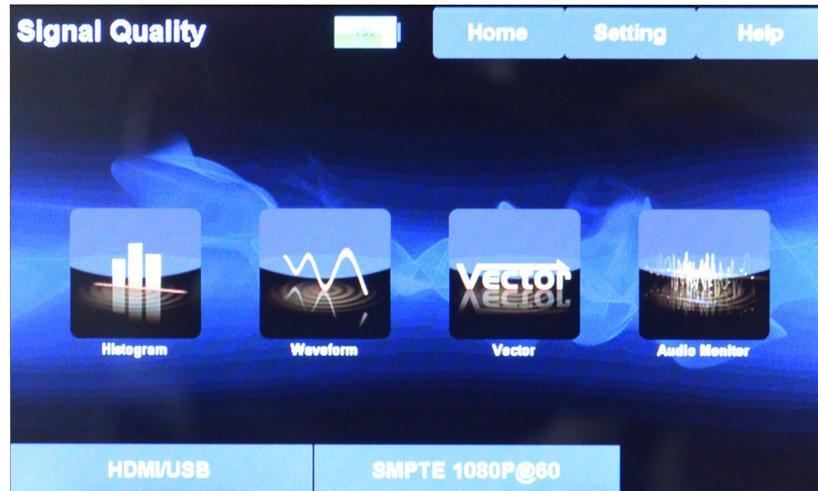


SMPTE	Touch the “SMPTE” button and select the output resolutions, including: 1080P@60, 1080P@59.94, 1080P@50, 1080P@30, 1080P@29.97, 1080P@25, 1080P@24, 1080P@23.98, 1080i@60, 1080i@50, 1080i@59.94, 720P@60, 720P@50, 720P@59.94, 720P@30, 576i@50, 480i@60, Test/Video
VESA	Touch the “VESA” button and select the output resolutions, including: 640×480@60, 640×480@75, 640×480@85, 800×600@60, 800×600@75, 800×600@85, 1024×768@60, 1024×768@75, 1024×768@85, 1280×800@60, 1280×1024@60, 1280×1024@75, 1280×1024@85, 1360×768@60, 1366×768@60, 1400×1050@60, 1400×900@60, 1600×1200@60, 1680×1050@60, 1920×1200@60,

Signal Quality



Touch the signal quality icon, the LCD touch display will show the menus as follows:

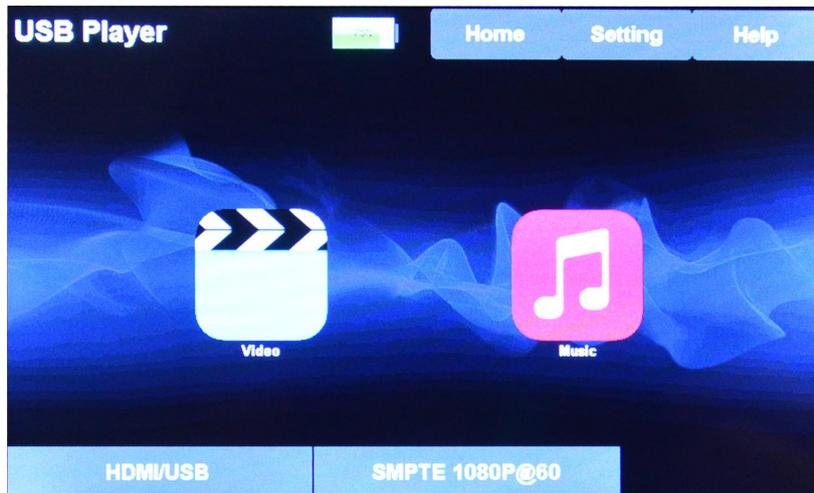


Histogram	Touch the icon, it will enter to the histogram video analysis diagram.
Waveform	Touch the icon, it will enter to the waveform video analysis diagram.
Vector	Touch the icon, it will enter to the vector video analysis diagram.
Audio Monitor	Touch the icon, it will enter to the audio monitor video analysis diagram. Note: Touch anywhere on the upper part of the screen in the video analysis interface, it will appear a "Return" icon on the top left corner of the screen, click the icon will return to the last level menu.

USB Player



Touch the USB player icon, the LCD touch display will show the menus as follows:

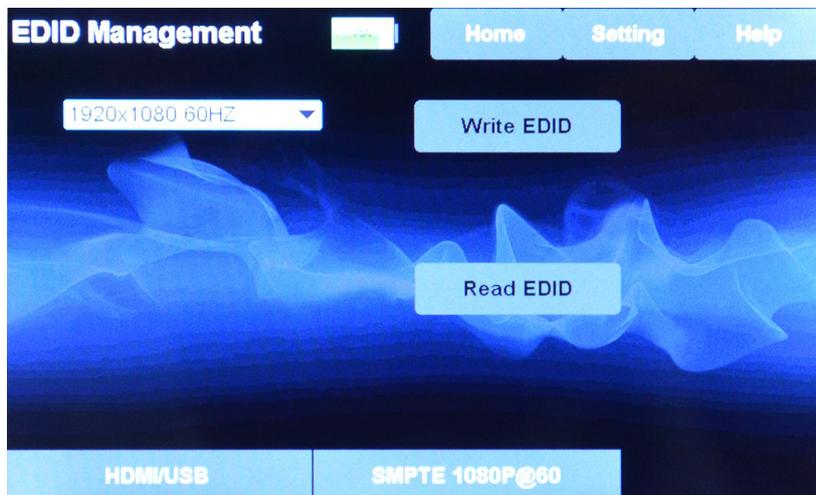


Video	Touch the icon will play the video. Note: Touch anywhere on the upper part of the screen in USB player interface, it will appear a “Return” icon on the top left corner of the screen, click the icon will return to the previous level menu.
Music	Touch the icon, it will enter to the audio test menu. Select any music, and connect the headphone to the audio output when testing.

EDID Management



Touch the EDID management icon, the LCD touch display will show the menus as follows:

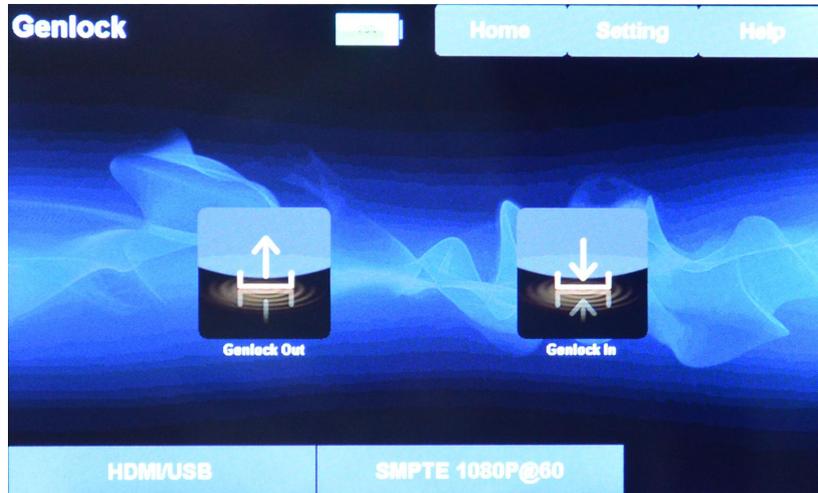


EDID Management	User can write and read EDID after entering to the “EDID Management” menus. Select EDID in the left EDID list. Connect the DVI cable to the external display before reading EDID, otherwise read EDID will fail.
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Genlock



Touch the Genlock icon, the LCD touch display will show the menus as follows:

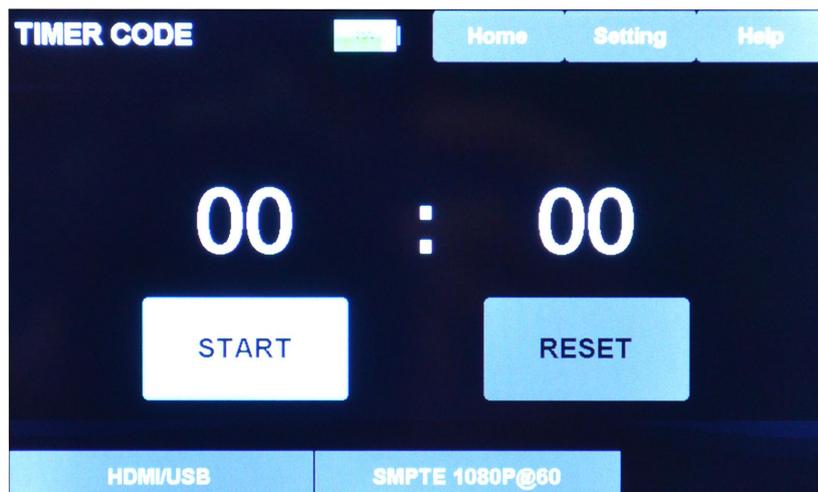


Genlock Out	Touch the “Genlock Out” icon, it will enter to the Genlock interface. “GENLOCK Y”, “GENLOCK HS” and “GENLOCK VS” can be tested.
Genlock In	MSP 200PRO V1.0 can not support this function.

Timer Code



Touch the timer code icon, the LCD touch display will show the menus as follows:

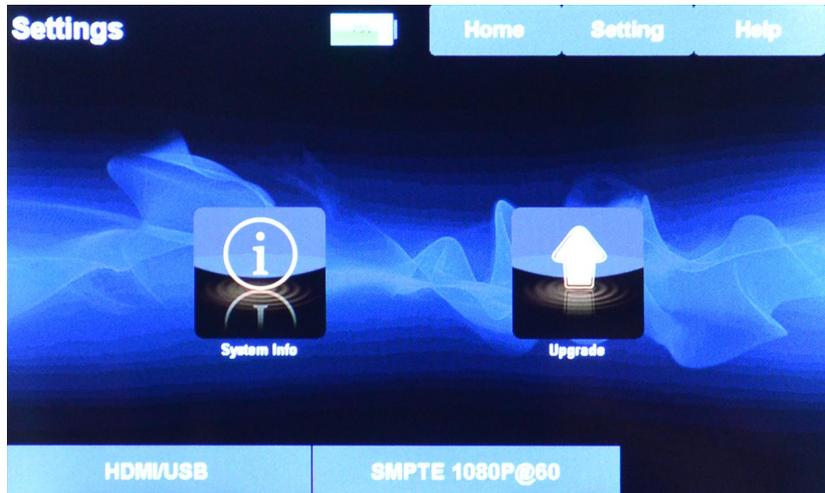


Timer Code	Start, pause and reset the timer code.
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Settings



Touch the settings icon, the LCD touch display will show the menus as follows:



System Info	Touch the icon, it will show the serial number, MCU version, FPGA version and cell voltage.
Upgrade	<p>Touch the icon, it will pop up 3 buttons: "Update FPGA", "Update VIDEO" and "Update MCU".</p> <p>Touch "Update FPGA" to upgrade the external FLASH of FPGA. It will pop up the progress bar twice during upgrade, the first time is erasing, and the second time is programming. Restart the device when the progress bar up to 100% for the second time.</p> <p>Note: Don't touch anywhere on the screen during upgrade.</p> <p>Touch "Update VIDEO" to upgrade the HDMI+USB module, the operation is same with "Update FPGA".</p> <p>Touch "Update MCU", MCU will be started. Then it will pop up the "UPDATE" dialog box if the SD card initialization is successful. Touch "UPDATE" again to upgrade the MCU, the device will restart when the upgrade is over. If the SD card initialization is unsuccessful, it will prompt "SD CARD ERROR", user need to power off and restart the device, then touch "UPDATE".</p> <p>Note: Don't touch anywhere on the screen during upgrade.</p>

Contact Information

Warranty:

All video products are designed and tested to the highest quality standard and backed by full 3 years parts and labor warranty. Warranties are effective upon delivery date to customer and are non-transferable. RGBlink warranties are only valid to the original purchase/owner. Warranty related repairs include parts and labor, but do not include faults resulting from user negligence, special modification, lightning strikes, abuse(drop/crush), and/or other unusual damages.

The customer shall pay shipping charges when unit is returned for repair.

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