



Analogue Pocket Dock Reference Manual

Analogue

**Celebrate & explore the
history of video games with
the respect it deserves.**

Congratulations on becoming an Analogue Dock owner.

A reimagining of the underdog that led a 16-bit revolution. Engineered with an FPGA. No emulation. 1080p. Zero lag. Total accuracy. Dock is not a plug n' play toy. Compatible with the Analogue Pocket. Explore and re-live one of the greatest video game systems of all time with no compromises.

What's in the box

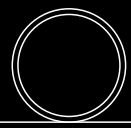
- Analogue Dock
- USB-C Cable
- HDMI cable
- USB Power Supply [100-240v, 50/60hz, USA/JPN plug-type]

HDMI 2.1 Bluetooth

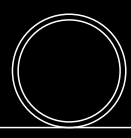
USB-C CONNECTION



LED INDICATORS



analogue.co 5V --- 3A Designed in USA/UK Made in China FC CE UK CA 204-XXXXXXX FCCID: 2AZVE-AP-D01



USB



RESET

POWER



HDMI



USB

Setting Up Dock

- 1 Plug your USB cable into your USB power supply
- 2 Plug your USB cable into Dock
- 3 Plug your USB power supply into a working AC Outlet
- 4 Plug one end of your HDMI cable into your Dock
- 5 Plug the other end of your HDMI cable into your TV/Monitor/Capture Device
- 6 Power on Pocket and plug into the top of Dock
- 7 Pair a compatible controller with Dock or connect via USB

Updating the Firmware

Before playing your Dock, make sure to update to the latest firmware at support.analogue.co. You will need a FAT16 or FAT32 formatted USB drive to update the firmware.

In order to update the firmware, copy the latest firmware update file at support.analogue.co (with a .bin extension) to the root directory of your USB drive. Make sure no other firmware files are in the root directory. Insert your USB drive into the USB slot on your Dock. The firmware update process will start automatically and takes approximately three minutes to complete. During that time the LED will flicker red and the screen will be blank. When the process is complete the LED will show a steady color and you will see the on screen logo. Do not power off Dock while the firmware is updating. If the power goes off for any reason, Don't Panic! The system may not display anything but it will look for a firmware file to flash to once the power is restored. You cannot brick your Dock with a failed firmware update.

When you update firmware, all settings are reset to their defaults. Take notes of your settings prior to updating.

Setting up your TV for perfect retro gaming

If your TV has a low-lag or Game Mode, enable it. Otherwise turn off all processing features on your TV or it may negatively effect gameplay and latency.

Default Controller Key Assignments & Hotkeys

Down + Start — Enter/Leave Menu

Entering the Menu may not pause a game and blocks controller inputs to the game, Leaving the Menu returns to a game in progress and returns controller inputs to the game.

Up + Start + A + B + C — Reset

Same as pressing the physical reset button, initiates a soft reset.

A — Confirm/Select Menu Option Key

B — Cancel/Back Key

C — Exit Menu and Return to Game

Main Menu Options

Run Cartridge

Performs a Cold Reset (CPU registers and memory is reset) and runs the cartridge in the cartridge slot. This can be a GB/GBC/GBA cartridge or using with the appropriate cartridge adapter. The system will load the appropriate core automatically.

Settings

Allows you to adjust the video, audio or system options, save settings and view the credits.

Tools

Allows you to enter Game Genie-style cheat codes and test your controllers using the built-in Analogue controller test program.

Compatible Controllers & Peripherals

— 8BitDo 2.4g or Bluetooth controllers

Settings Menu Structure & Outline

Factory Default Settings for each option are **highlighted**. If the option is not highlighted, then it is not enabled with the Factory Default Settings. If there is a range given to a particular option, then the default value for that range is highlighted after the range limits are given.

A Video	d Green (1.00-1.99, 1.00)	C System	f SD Card Speed
1 <i>Resolution</i>	e Blue (1.00-1.99, 1.00)	1 <i>Menu Options</i>	i Normal Speed
a 480p60		a Skin	ii Fast
b 720p60	9 <i>Advanced Mode</i>	i USA	iii Faster
c 1080p60 (assuming your display supports this resolution)	B Audio	ii EUR	g Debug
d 480p50	1 <i>Headphone Settings</i>	iii JPN	i Disable YM2612 Channels
e. 720p50	a Headphone Volume (0-50, 32)	b Highlight Style	1 0
f. 1080p50	b High Impedance Phones	i Solid	2 1
		ii Swipe	3 2
		iii Flash	4 3
		iv Rolling	5 4
		v Throb	6 5
2 <i>Width & Height (when Advanced Mode is enabled, otherwise Screen Size)</i>	2 <i>Channel Levels</i>	c Highlight Color	ii Disable PCM Audio
a x320 width (depends on resolution, 1337 for 1080p)	a YM2612 L (28-100, 100)	i Chlorophyll	iii Show IRQs
b Horizontal Position (depends on resolution, 38 for 1080p)	b YM2612 R (28-100, 100)	ii Quinoline	iv Show Display Enable
c Height (depends on resolution, 1080 for 1080p)	c Square 1 (28-100, 55)	iii Fast Green	v Highlight Scanline
d Vertical Position (depends on resolution, 50 for 1080p)	d Square 2 (28-100, 55)	iv Petent Blue V	1 Scanline Number (0-255, 0)
f Link x320 and x256 sliders	e Square 3 (28-100, 55)	v Spirulina	vi Highlight Pixel
	f Noise (28-100, 55)	vi Brilliant Blue	1 Pixel Number (0-359, 0)
3 <i>Screen Size (when Advanced Mode is disabled)</i>		vii Anthocyanin	
a 1:1	3 <i>Channel Panning</i>	viii Indiotine	5 <i>LED Options</i>
b Square Pixels	a YM2612 L (-100-100, -84)	ix Phloxine	a Standby Color
c 4:3 for 16:9	b YM2612 R (-100-100, 84)	x Carmine	b Center Pixel
d 4:3 for 16:10	c Square 1 (-100-100, 0)	xi Carotene	c K-Pro Rainbow
e 4x Height (1080p only)	d Square 2 (-100-100, 0)	xii Tartrazine	d Load Custom Pattern
f 4.5x Height (1080p only)	e Square 3 (-100-100, 0)	xiii Titanium Dioxide	i File Browser
g 5x Height (1080p only)	f Noise (-100-100, 0)	xiv Aluminum Oxide	e Adjust Pattern
			i Animate Pattern
4 <i>Scalers</i>	4 -3db Output Cut	d Font	ii Animate Speed (0-31, 16)
a No Scaler	5 <i>Enable Cartridge and CD Audio</i>	i Alternate Font	iii Pattern Position (0-255, 0)
b HQ2x	6 <i>Swap Left & Right</i>	ii Upper Case	f LED Brightness (0-31, 8)
c HQ3x		iii Mixed Case	
d HQ4x	7 <i>Cartridge & CD Audio Volume (0-255, 25)</i>	iv Lower Case	D About
e Scale 2x	8 <i>Use Lowpass Filter</i>	v User Loaded Font	1 <i>Special Thanks</i>
f Scale 3x	9 <i>Lowpass Filter (100-20000, 20000)</i>	vi Load Font from SD Card	2 <i>Licensing</i>
g X-Ray	10 <i>Ladder Effect Depth (0-31, 0)</i>	e Menu Bounce	
h Disable H Interpolation	11 YM2612 High Quality Mode	f Dim Game in Menu	E Save/Clear Settings
i Disable V Interpolation	12 <i>YM2612 Waveform (0-31, 0)</i>		1 <i>Save Settings</i>
			2 <i>Restore Factory Defaults</i>
5 <i>Scanlines</i>		2 <i>Hotkeys</i>	
a No Scanlines		a Reset Hotkey	
b Normal Scanlines		i Left	
c Hybrid Scanlines		ii Right	
d Scanline Depth (0-255, 120)		iii Down	
		iv Up	
6 <i>Extra Features</i>		v Start	
a Mask Top and Bottom Borders		vi A	
b Mask Left and Right Borders		vii B	
c Enable Dither Blending		viii C	
b Dither Blending Depth (0-63, 0)			
		b Menu Hotkey	
7 <i>Buffer Mode (not shown unless Advanced Mode is enabled)</i>		i Left	
a Fully Buffered		ii Right	
b Zero Delay		iii Down	
c Single Buffer		iv Up	
		v Start	
8 <i>Color (not shown unless Advanced Mode is enabled)</i>		vi A	
a Limit RGB Range		vii B	
b Lock Gamma Sliders Together		viii C	
c Red (1.00-1.99, 1.00)		c Disable Hotkeys	
		d Passthrough Mode	
		3 <i>Startup Options</i>	
		a Boot Sequence Delay (1-10, 4)	
		b Title → Menu	
		c Title → Cartridges	
		d Menu Direct	
		e Cartridge Direct	
		4 <i>Hardware</i>	
		a USA (NTSC Export)	
		b Japan (NTSC Domestic)	
		c PAL Regions (PAL Export)	
		d PAL Extra (PAL Domestic)	
		e Force 3 Button Mode	

Video Settings

Resolution

480p modes set a resolution of 640×480
(no widescreen borders are added to the signal)
720p modes set a resolution of 1280×720
1080p modes set a resolution of 1920×1080.

50p is intended for European and Australian PAL games, all Japanese, American, South Korean and Brazilian games use the NTSC 60p frame rate. If you see visual artefacts like tearing (assuming the single buffer mode is off) or stuttering, check here to make sure your refresh rate matches the refresh rate of the game's region. This setting should be used in conjunction with the Hardware settings in the System Submenu.

Dock supports EDID (Extended Display Identification Data) over HDMI. The display will send EDID information over the HDMI cable telling Dock what display modes it supports. You may get an unsupported display mode to work, but if you do not, you may end up with no picture. Some NTSC displays may not report 50p support but will work with some or all 50p resolutions anyway. Almost all European displays support 60p. Dock will start up with the highest resolution and frame rate your monitor supports unless you select a lower resolution setting and save the settings.

FCC regulatory conformance:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a **Class B** digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



**Analogue.
Dock does it all.**