



# P-20HD

## VIDEO INSTANT REPLAYER



### TRANSFORM SPORTS PRODUCTION

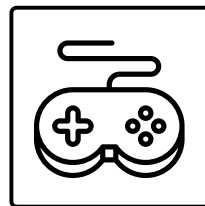
**An intuitive and affordable solution for bringing slow-motion instant replay capabilities to any live production setup.**

Until now, creating slow-motion instant replays in live sports productions has required an arsenal of complicated and expensive gear—and the knowledge to run it all. Roland's P-20HD changes all that, providing an affordable and easy-to-use solution that lets you bring pro replay capabilities to any production setup.

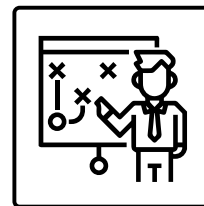
Offering seamless integration with most Roland A/V switchers and HDMI camcorders and cameras, the P-20HD transforms everyday sports video productions into edge-of-seat fan experiences.



SCHOOL SPORTS



ESPORTS



COACHING  
AND TRAINING





# TRANSFORM SPORTS PRODUCTION

- Add instant replay to workflows
- One person operation
- Direct access controls





**RECORD**

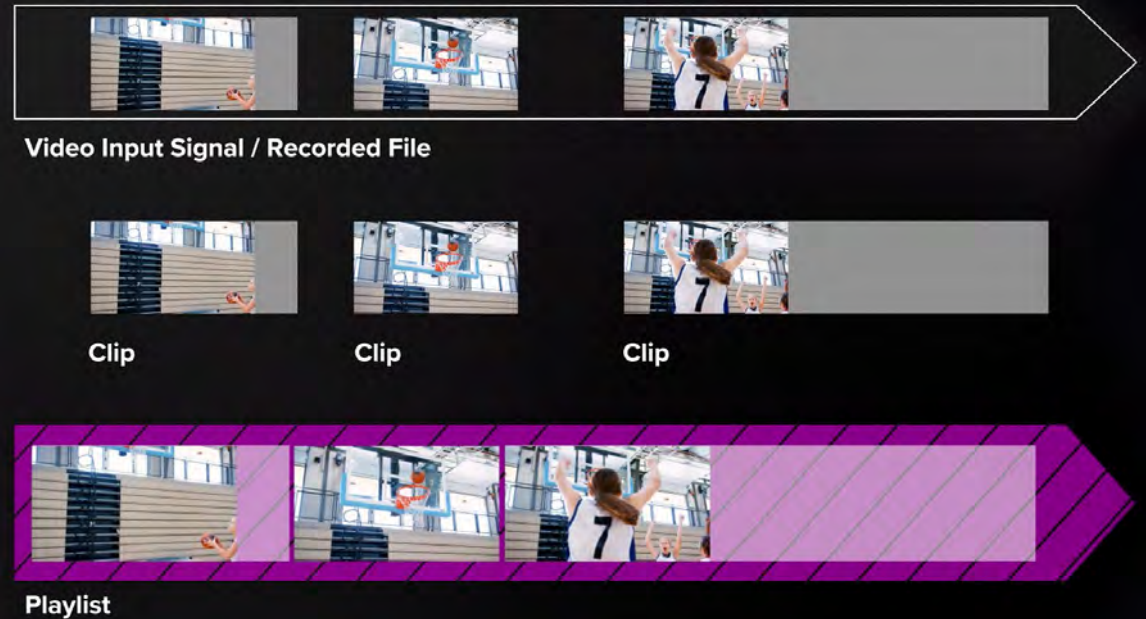
**REPLAY**



# RECORD AND REPLAY AT THE SAME TIME

- Record H.264 direct to high-capacity SD cards
- Mark, cue up and replay clips while recording in background with no gaps in the action



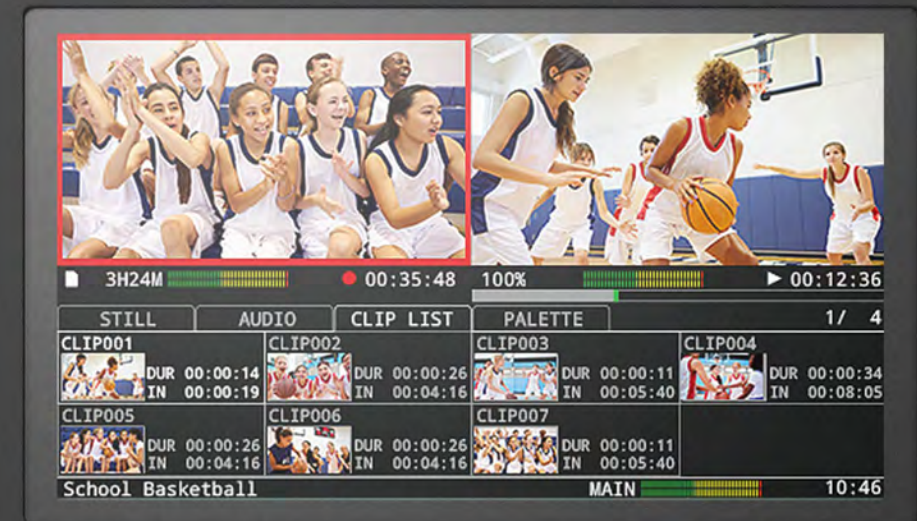


# CREATE HIGHLIGHT AND TRAINING REELS

- Use media playlist builder to curate pro videos
- Perfect for sharing best moments to social media
- Ideal for evaluating training sessions

# BUILT-IN PREVIEW MONITOR

- Manage and execute workflows in real time
- Displays all critical information in record and playback views



# SUPERB AUDIO QUALITY

- High-quality sound processing
- Stereo audio I/O via HDMI and RCA
- Onboard EQ, limiter, and delay effects
- Headphone jack for monitoring







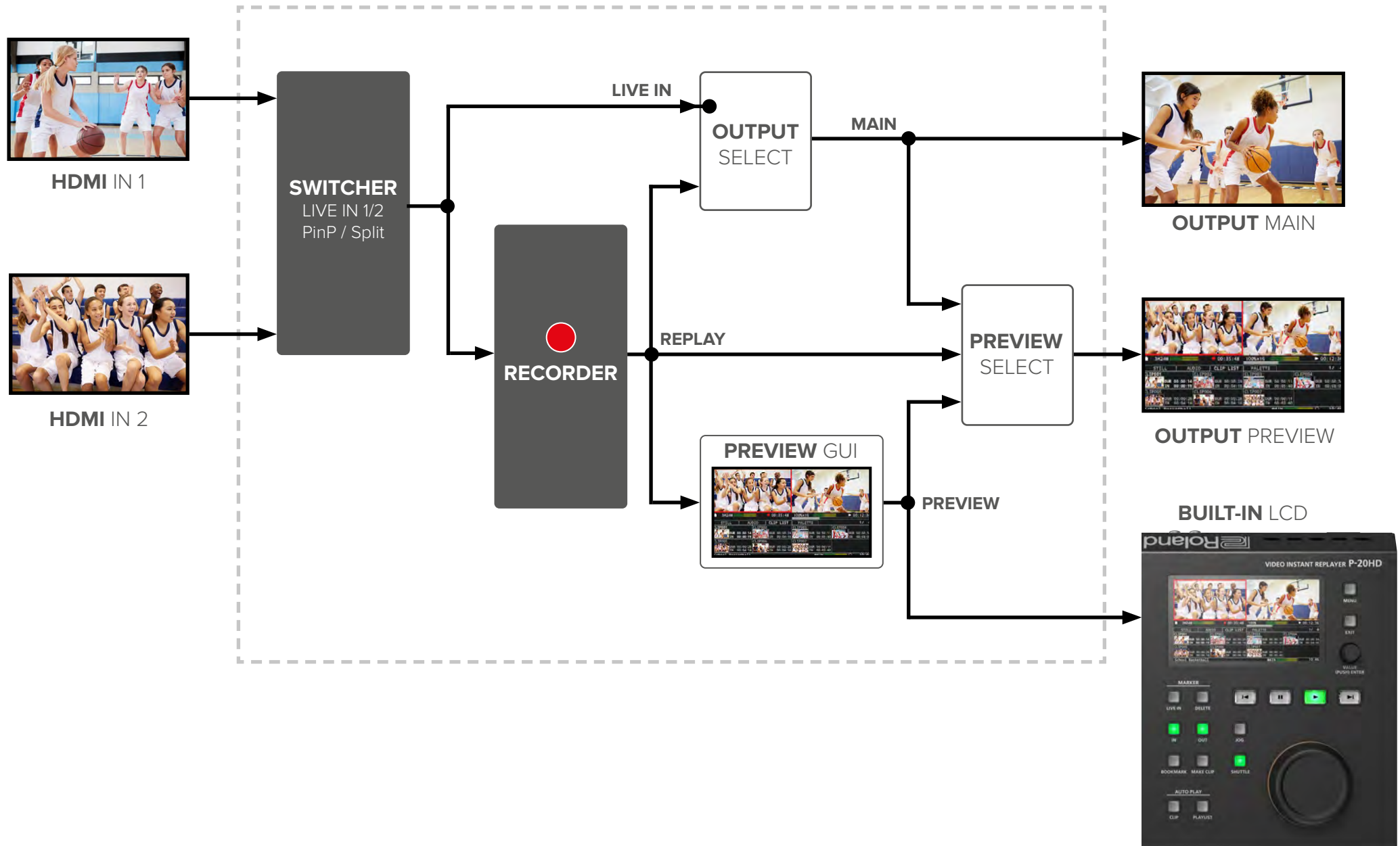
## PLAYS WELL WITH OTHERS

- Use on it's own, or upstream or downstream of any Roland video switcher
- Connect two cameras and switch/composite between sources
- Two HDMI inputs with scalers for worry-free connectivity



# P-20HD

## SIGNAL FLOW OVERVIEW



# P-20HD

## SPECIFICATION

### VIDEO

#### INPUT CONNECTORS

**INPUT 1** HDMI Type A

**INPUT 2** HDMI Type A

Multi-format Supported

#### INPUT FORMATS

480/59.94i / 480/59.94p / 576/50i / 576/50p

720/59.94p / 720/50p / 1080/59.94i

1080/50i / 1080/59.94p / 1080/50p

VGA (640 x 480/60Hz)

SVGA (800 x 600/60Hz)

XGA (1024 x 768/60Hz)

WXGA (1280 x 800/60Hz)

SXGA (1280 x 1024/60Hz)

FWXGA (1366 x 768/60Hz)

SXGA+ (1400 x 1050/60Hz)

UXGA (1600 x 1200/60Hz)

FHD (1920 x 1080/60Hz)

WUXGA (1920 x 1200/60Hz)

- The refresh rate is the maximum value of each resolution.
- Conforms to CEA-861-E/VESA DMT Version 1.0 Revision 11.
- 1920 x 1200/60 Hz: Reduced blanking.
- The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz).

#### OUTPUT CONNECTORS

**MAIN:** HDMI Type A

**PREVIEW:** HDMI Type A

#### OUTPUT FORMATS

**MAIN**

720/59.94p / 720/50p / 1080/59.94i

1080/50i / 1080/59.94p / 1080/50p

**PREVIEW**

1080/59.94p / 1080/50p

- The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz).

#### PROCESSING

4:2:2 (Y/Pb/Pr), 8-bit

#### VIDEO EFFECTS

**Composition** PinP, SPLIT

**Transition** CUT, MIX, WIPE

**Other** Flip horizontal, Still Image Playback,

Test pattern output

#### STILL IMAGE

**Bitmap File (.bmp)** Maximum 1920 x 1080

pixels, 24-bit color, uncompressed.

**PNG File (.png)** Maximum 1920 x 1080 pixels,

24-bit color, 8-bits alpha channel.

\* It can be stored up to 16 files in each Projects.

#### RECORDING MEDIA

SD / SDHC / SDXC Support

FAT32 / exFAT Support

#### RECORDING MODE

**FILE FORMAT** MPEG2-TS

**VIDEO** H.264 High@L.4.1 10Mbps 8bit 4:2:0

**AUDIO** AAC LC 128kbps, 48kHz, 16bit stereo

**RECORDING MODE** (1) Resolution priority,

(2) Framerate priority

\* It can be selected at project settings

#### RECORDING TIMES

CARD CAPACITY	RECORDING TIME
16GB	2hr 50m
32GB	5hr 45m
64GB	11hr 30m
128GB	23hr 00m
256GB	46hr 00m
512GB	92hr 00m

\* The recording times listed above are approximate. They may differ depending on the condition of the card. If some still or audio files are imported, the total recording time may be less than these listed times.

### AUDIO

#### PROCESSING

24 bits/48 kHz

#### FORMATS

Linear PCM, 24 bits/48 kHz, 2ch

#### INPUT CONNECTORS

**INPUT 1--2** HDMI Type A x 2

**AUDIO IN** RCA phono type

#### OUTPUT CONNECTORS

**MAIN OUT** HDMI Type A

**PREVIEW OUT** HDMI Type A

**AUDIO OUT** RCA phono type

**PHONES** Stereo 1/4-inch phone type

#### INPUT LEVEL

**AUDIO IN** -10 dBu (Maximum +8 dBu)

#### INPUT IMPEDANCE

**AUDIO IN** 15 k ohms

#### OUTPUT LEVEL

**AUDIO OUT** -10 dBu (Maximum: +8 dBu)

**PHONES** 92 mW + 92 mW (32 ohms)

#### OUTPUT IMPEDANCE

**AUDIO OUT** 1 k ohm

**PHONES** 10 ohms

#### AUDIO EFFECTS

EQ, Delay, Limiter, Test tone output

#### AUDIO PLAYER

**File format** WAV (Linear PCM, 48kHz/48kHz, 16bit, stereo)

\* It can be stored up to 16 files in each Projects.

### CONNECTORS

#### OTHER

**USB HOST port**

USB A type (For USB flash drive)

**LAN port**

RJ-45, 1000BASE-T (For remote control)

**RS-232 connector**

DB-9 type (Male, for remote control)

**CTL/EXP 1, 2**

1/4-inch TRS phone type

**DC IN**

### OTHERS

#### FUNCTIONS

- EDID Emulator
- Panel Lock Function

#### DISPLAY

4.3 inches TFT Color LCD: 480 x 272 dots

#### POWER SUPPLY

AC Adaptor

#### CURRENT DRAW

3 A

#### POWER CONSUMPTION

36 W

#### OPERATION TEMPERATURE

+0 to +40 degrees Celsius

+32 to +104 degrees Fahrenheit

#### DIMENSIONS

265(w) x 216(d) x 87(h) mm

10-7/16 (W) x 8-9/16 (D) x 3-7/16 (H) inches

#### WEIGHT

2.1 kg / 4 lbs 11 oz (excluding AC adaptor)

**Roland**  
Professional A/V

# P-20HD



**P-20HD**  
**RRP €2,649** EX. VAT

AVAILABLE MARCH 2021

GBP	2,331	PLN	11,259
DKK	19,760	HUF	866,063
SEK	27,816	CHF	3'017
NOK	28,672	RUB	210,408





## DIMENSIONS

### P-20HD

#### WEIGHT

2.1kg (4lbs 11oz)



216mm (8-9/16in)

265mm (10-7/16in)



87mm  
(3-7/16in)

## IN THE BOX

- Owner's manual
- AC adaptor
- Power cord

## ACCESSORIES

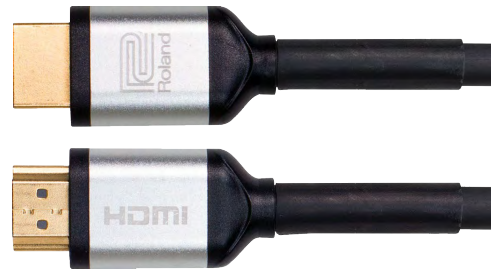


### NEW

#### UVC-01 USB VIDEO CAPTURE DEVICE

A simple HDMI-to-USB video conversion tool, allowing users to convert a V-1HD+ HDMI output into a plug-and-play USB 3.0 webcam feed, ready for HD livestreaming on Facebook Live, YouTube, Zoom, and other popular platforms

#### HDMI CABLES BLACK SERIES HDMI 2.0 CABLES



#### USB CABLES Premium Woven Various Lengths



**M-200 STUDIO**  
Professional  
Studio Headphones



### ROLAND HEADPHONES

Headphones for everyday music making, monitoring and audio playback



# P-20HD

## MEDIA

P-20HD  
**WEBPAGE**

DOWNLOAD  
**ASSETS**

PROMO  
**VIDEO**