

NUCLEUS

by antelope



HIGHFRAMERATE mini camera TRIGGERLESS SERVER recording

- **Ultra Slow-Motion** 250 FPS in UHD/450 FPS in FHD
- **Triggerless Recording** > 120min
- **Fiber Connection** 2x LC via 25GigE SFP

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CAMERA HEAD

SENSOR

Sony - CMOS

PIXEL AND RESOLUTION

4128 x 3008 - 2,74um - 12,4MP

SHUTTER

GLOBAL - 5us-1

POWER

12V - 800mA

INTERFACE

SFP 28 - 25 GigE 2 x LC

DYNAMIC RANGE

74db - HDR MODES

FRAMERATE

250 FPS @ UHD/ 450FPS @ FHD

SIZE AND WEIGHT

105x65x50mm - 500g

MOUNT

MINI PL - FOR C-MOUNT LENSES

CCU/SERVER

STORAGE

SSD RAID UP TO 32 TB

REMOTE CONTROL

VISION AND REPLAY VIA IP

BITRATE

8bit-4:2:0/10bit-4:2:2/12bit-4:4:4

OUTPUT

3/12G SDI - 2x Live + 2x Replay

INTERFACE

2x SFP 28 - 25 GigE

COLOR SPACE

REC 709/BT2020

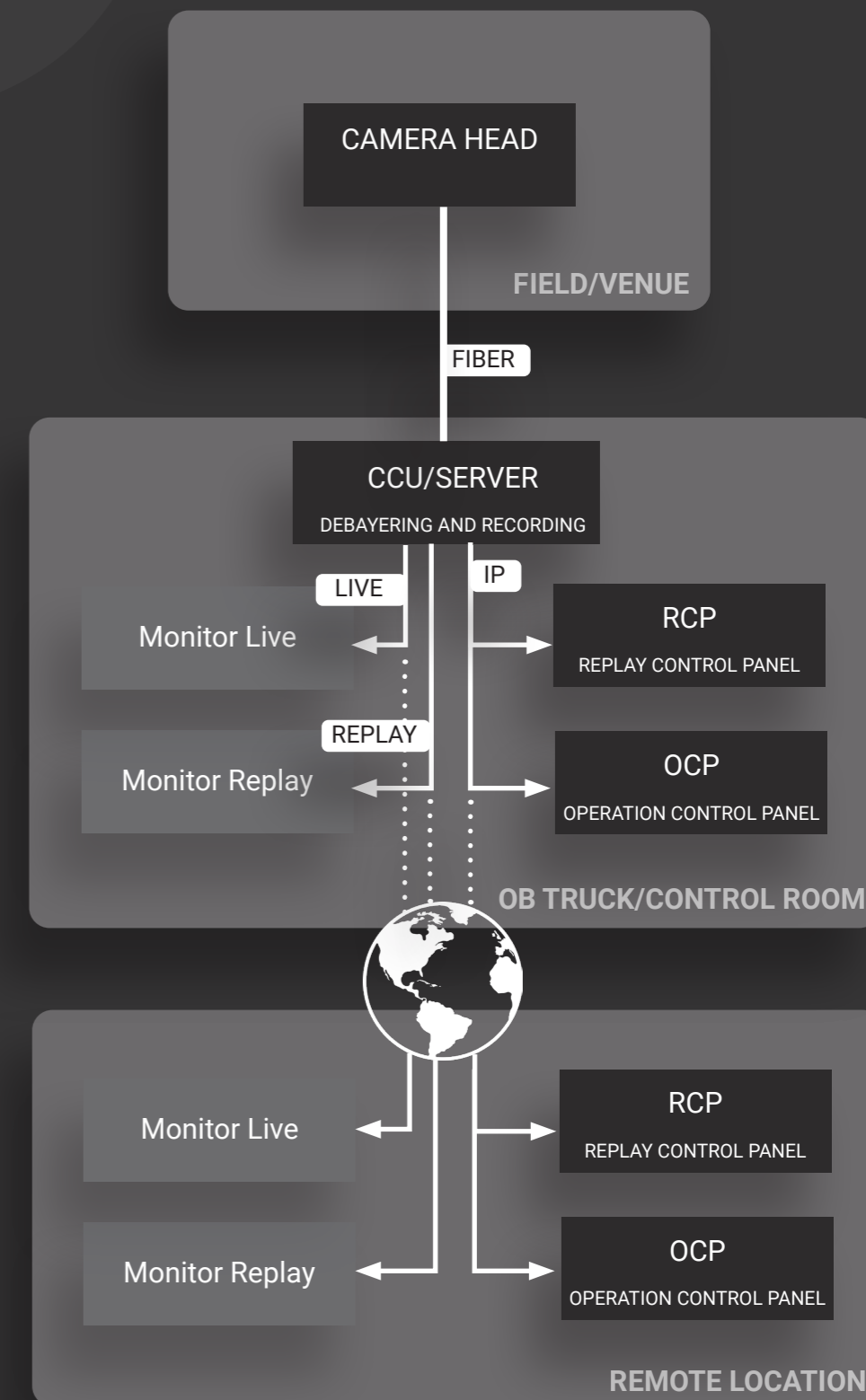
CLIPS

CREATION AND MANAGEMENT

SIZE AND WEIGHT

4U-19inch RACK 20kg

TRIGGERLESS ULTRA SLOW-MOTION



NUCLEUS

PICO 4K250

TRIGGERLESS HDR
ULTRA SLOW MOTION

UNLIMITED SPORTS
BROADCASTING

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250 FPS
SLOW-MOTION @ UHD

450 FPS
SLOW-MOTION @ FHD

>120 min
Triggerless recording



Remote Production
IP based control panels for vision and replay

Fiber Connection
2X LC single link fiber via SFP 25GigE

Dual camera mode
Simultaneous or independent control option

The Nucleus Pico miniature slow motion and live broadcast camera system captures UHD images at an amazing 250FPS and Full HD @ 450 FPS. The system is not only optimized for highest broadcast image quality, but also for its amazingly small size. This not only allows the Nucleus Pico camera head to be hidden very close to the action, but together with the extreme slow motion replay also offers new angles and never seen before details.



- ✓ HDR GAMMA CURVES
- ✓ COLOR MATCHING FOR BROADCAST
- ✓ CLIPPING FOR HIGHLIGHT CUTS
- ✓ 8BIT 4:2:0 - 10BIT 4:2:2 - 12BIT 4:4:4
- ✓ 4X 12/3G SDI OUTPUTS: 2x LIVE 2x REPLAY
- ✓ PERMANENT LIVE FEED
- ✓ SIMULTANEOUS RECORDING AND PLAYOUT
- ✓ INTEGRATED FIBER CONNECTION



The Nucleus Pico uses a newly developed durable flanged mounting system positive lock (PL) mount. The traditional C-mount has a number of limitations when working with lens motors and miniature cameras, and the Antelope mini PL-mount has been developed to specifically address those limitations. The new mount is robust and reliable while guaranteeing a precise flange focal distance. Any C-mount lens can be easily adapted to the new Antelope mini PL-mount.

In addition to its high-quality, instant slow-motion images, the Nucleus Pico System also provides real-time, normal-speed images. Furthermore, this 2160p50/60 SDI output is available simultaneously with the Slomo output, allowing users to employ the Nucleus Pico for both slow-motion and standard shooting purposes for maximum versatility. The system consists of a special super highspeed SSD server, that records permanently, capturing the entire event up to 120 minutes. It comes with an industry approved remote control panel that provides direct access to all cameras functions and allows the operator to instantly find and replay any moment.



NUCLEUS

Because every second counts.