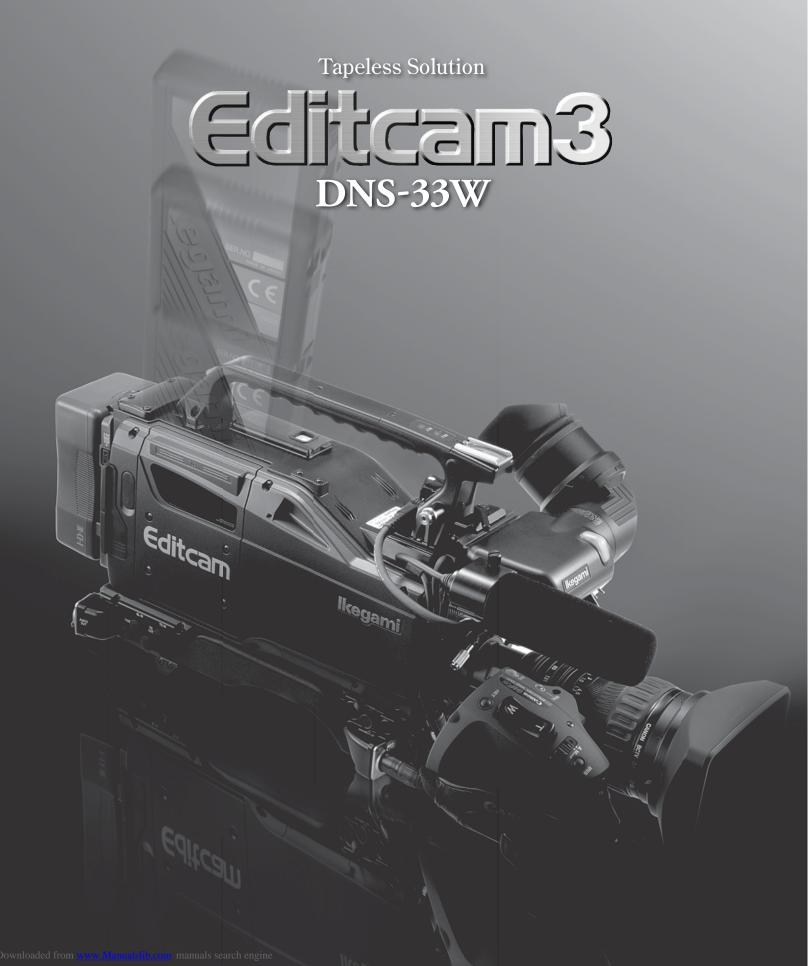
DNS-33W

## Ikegami



# Editcam3

The DNS-33W Editcam3 is the latest evolution in tapeless recording. It combines superb camera technology with sophisticated new features. Ikegami has continuously upgraded and expanded the state of nonlinear acquisition, which it introduced to the broadcast market a decade ago.

The DNS-33W radically changes the way video will be captured, edited and distributed.



The Starting Point of Tapeless



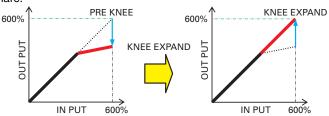
# Recording

### **Features**

### Camera Performance

#### ■ 12-bit A/D Converter

Employing an advanced 12-bit A/D converter ensures improved contrast in low light luminance portions of the image. Knee expansion circuitry incorporated at the first stage of the digital processing restores linearity in high luminance areas which is lost in the in the pre-knee process. Through this technology, linear signal processing at 600% is achieved in the digital processing, resulting in improved signal characteristics, including knee and flare.



### **■ Digital Process**

A newly developed digital processing ASIC is employed, which handles almost all of the signal processing. Designed at 0.18micron rule, the ASIC quantizes video signals with up to 38 bits for internal processing. Full digital processing after pre-knee ensures stable and reliable



picture quality. Circuitry that has in previous generation DSP cameras been analog, such as white balance and white shading, is now digitized, to deliver the highest quality video with excellent S/N in all modes of operation. The digital ENC circuit, which is built into this chip, provides stable composite video from the camera head.

### ■ S/N 66dB (Typical)

Excellent S/N 66dB(NTSC) / 64dB(PAL), which heretofore would have been impossible, has been achieved thanks to newly developed CCD signal processing, improvement of pre-amp, digitization of remaining analog circuit and adoption of 12-bit A/D conversion. Video signal noise has been reduced by 50% in practical operation from our previous model.

### ■ AIT (Advanced Interline Transfer) CCDs

High performance 520K pixel(NTSC) 16:9/4:3 switchable AIT CCDs offer very low smear level of -135dB with 100,000 times lighting condition. This figure actually exceeds that of previous FIT chips.

### **■ ECC (Electronic Color Compensation) Filter**

Employs 4 position(3200K/4300K/6300K/8000K) ECC filter. It provides higher sensitivity at high color temperature with similar

operation to current top end broadcast cameras. A 4-position Neutral Density Filter is provided to accommodate the full range of outdoor lighting conditions.



### ■ Hyper Gain

Hyper-gain up to +48dB allows minimum illumination of just 0.03lux(F1.4 with 50% video level).

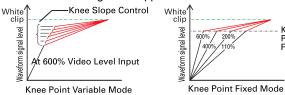




Gain UP

### ■ Adaptive Auto Knee

In addition to the conventional auto knee circuit that varies the slope of the knee according to the degree of over exposure, the DNS-33W includes an adaptive auto knee that adapts both the point and slope of the knee to give improved contrast in the highlight area. The adaptive auto knee has five different pivot points, selected by the menu, so that operator can optimize the performance according to the application.



### ■ Super-Knee

This function retains color in high light areas where it typically looses saturation in knee circuit. The Super Knee circuit uses the 600% dynamic range in digital to recover the color saturation.





Point

Normal

Super Knee ON

#### ■ 4ch Audio

4ch audio recording is available. Sampling frequency can be set at 44.1KHz or 48KHz. Audio input from front MIC, rear audio inputs(2inputs) or Unislot(RF Receiver) can be assigned to each channel.

### ■ Touch Control 3.5inch Color LCD

The 3.5 inch color LCD panel can display recording status information, accesses menus pertaining to camcorder recording, or display camera output / playback video. Display mode and settings can be changed with touch panel operation.





#### **■** D-Tap Connector

A D-Tap connector for powering a light is located at the inside of the front of the handle. This eliminates the need to run a power cable to the battery bracket. Light control can be synchronized to REC control of camera.



### ■ 1.5" Viewfinder with slide mechanism

Equipped with a high performance viewfinder of 600TVL horizontal resolution, the viewfinder can be moved back and forth / right and left by means of an innovative sliding system. In addition to conventional locations, the viewfinder has a rear tally light on the backside for easy taking confirmation at various shooting angles.





### Various DTL function

In addition to Diagonal DTL. Skin-tone DTL, boost frequency control and H/V balance control, new features are employed. These new features provide a more natural DTL effect and higher resolution effect in the video from high light to low light portion.

#### New Skin DTL

The new Skin DTL eliminates not just the DTL edge, but also the high frequency portion of skin tone for greater effect than conventional skin DTL.





Normal DTL

New Skin DTL ON

#### Wide Band DTL

By generating DTL at a wide band of boost frequencies, the picture becomes sharper especially when the zoom is at wide angle.

#### ■ New Slim DTL

A more effective slim DTL function is available for thinner horizontal DTL edge.

### ■ Vertical Slim DTL (5 Line DTL)

By making vertical edge from 5 lines, slim DTL effect can also be achieved for the vertical edge.



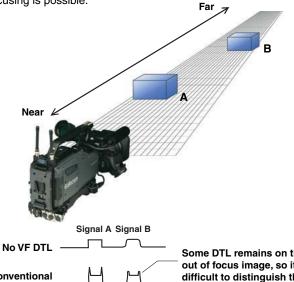


**Normal DTL** 

Vertical Slim DTL ON

### **■ Clear VF DTL**

Clear VF DTL emphasizes only the in-focus point, so easier focusing is possible.



No VF DTL Conventional VF DTL With clear VF DTI

Some DTL remains on the out of focus image, so it is difficult to distinguish the difference between A and B.

No DTL is generated for the out of focus image, then it is easier to tell the difference between A and B.

### Recording Feature

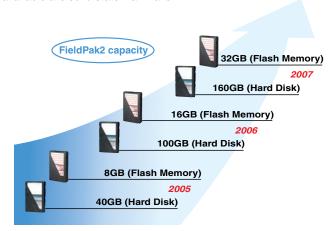
### ■ Compression codec and recording time

Standard compressions include JFIF3:1/10:1/20:1 and DV25. DV50 and MPEG50 are optionally available. (\*Recording time table shows typical recording time excluding audio data)

Recording Time Table	Flash Memory			Hard Disk		
	8GB	16GB	32GB	40GB	100GB	160GB
DV25	36min	72min	144min	180min	450min	720min
JFIF3:1/DV50/MPEG50	18min	36min	72min	90min	225min	360min

#### **■** FieldPak2

The FieldPak 2 is the media Editcam technology records to. They are currently available in 20GB, 40GB, 60GB and 80GB capacities. A 40GB FieldPak will yield approximately 165 minutes of recording DV25 compression with 4ch audio recording. Also available are solid state RamPaks.



### ■ Various recording Function <Retro-Loop>

This groundbreaking feature allows cameramen to capture events after they have occurred. In Retroloop mode, the video is recorded to a buffer of pre-deteremined length (from 5 seconds to over 8 minutes at DV25), but only saved when the cameraman presses the record button.

#### <Time-lapse recording>

The incorporated interval program allows for the capturing frame rates from one out of two, up to one frame in 24 hours. Time-lapse recording applications include botanical studies, speeding up of cloud movements and speeding up of construction jobs, to name a few.

#### <Intelligent recording>

Editcam Intelligent recording ensures that audio and video are recorded safely to an empty section of the hard drive, even if you were reviewing previously recorded material at the time.

#### ■ Portable Non-Linear Recorder [DNE-31]

The DNE-31 EditcamStation2 is a portable non-linear recorder,

which uses the same recording media (FieldPak2) as the DNE-33W. Playback and rough editing of recorded clips in FieldPak2 are available. Connected to a conventional camera, captured video can be digitally recorded directly to a FieldPak2 for later use by an Avid non-linear editor.



### Tapeless Workflow



### Shooting

Sophisticated Editcam3 technology accelerates your creative motivation. Low center of gravity mechanical designation and new large shoulder pad support comfortable on the shoulder active shooting.



### *Eject*

The FieldPak2 is manufactured with shock absorbing insulation to protect the internal drive. It gives the recording media high reliability.



Editcam technology eliminates the time consuming process of digitizing clips prior to editing. This innovative workflow gives editors more time to focus on the creative side of video creation.

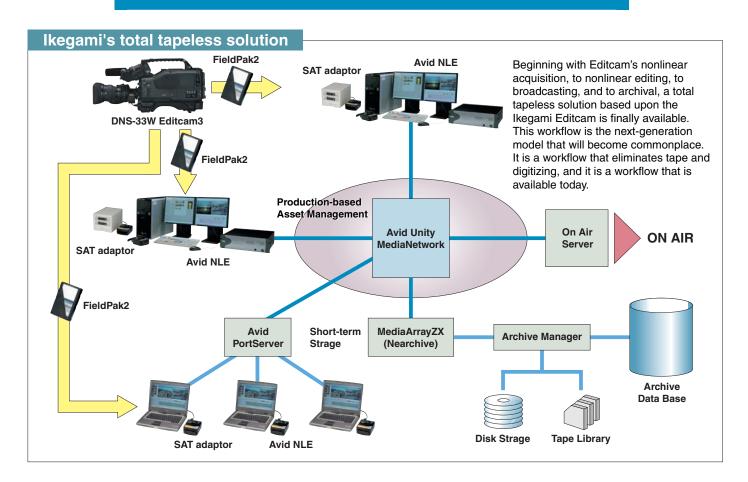
(It is not necessary to consume time importing to NLE. Innovative no digitizing workflow provides more time to editors to concentrate on video creation.)



### Mount

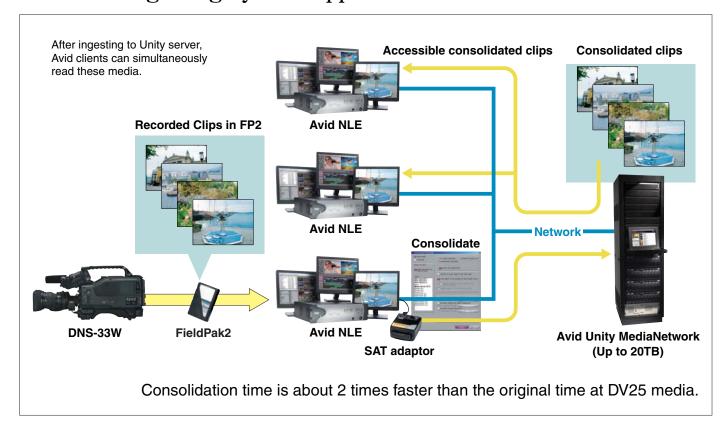
Inserting the FieldPak2 into an SAT adaptor provides easy mounting for editing with an Avid NLE.

No Digitizing!

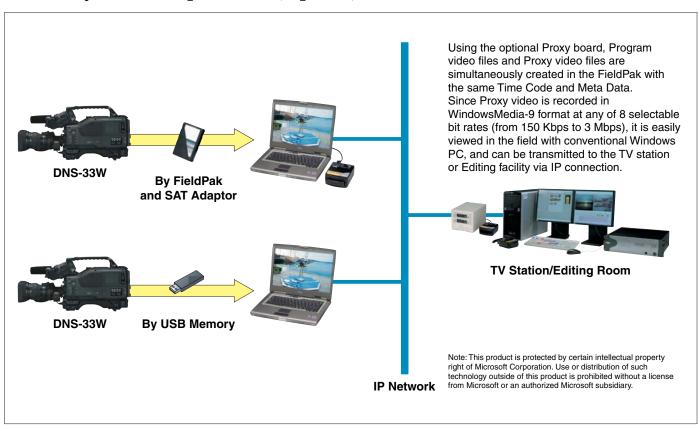


### System Application

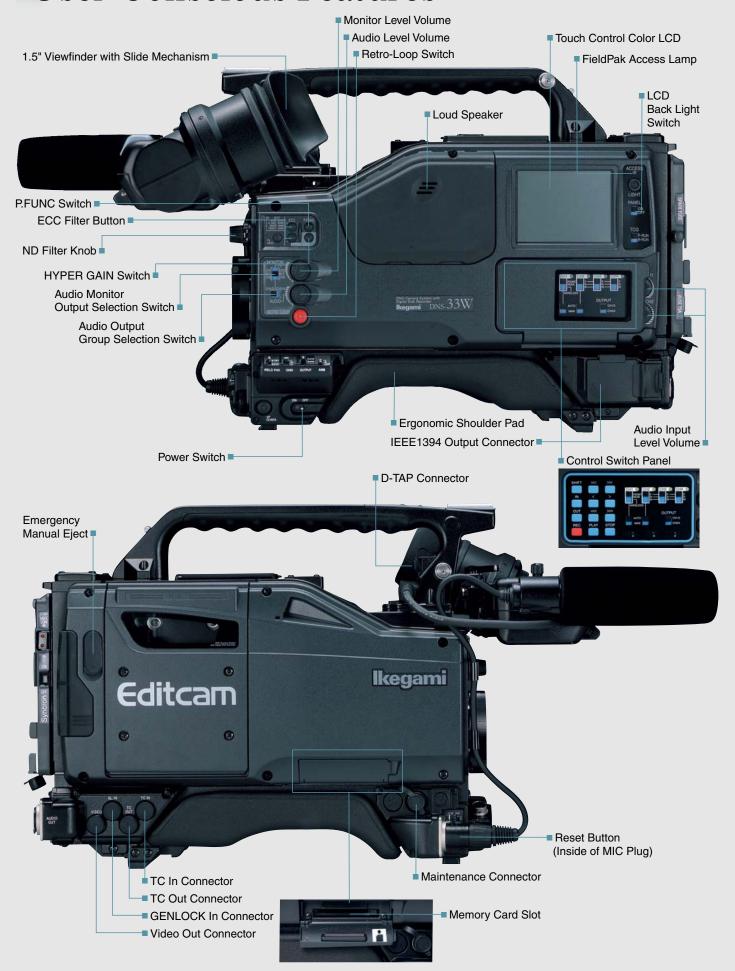
### Server Ingesting System Application



### Proxy Video Operation (Option)



### **User-Conscious Features**







### **■** Remote Controllers





Remote Control Unit
RM-11





■ Adaptors



26pin VTR Adaptor VTA-206V



TA System Adaptor SYA-206V



MA System Adaptor MSA-206V

### **■** Triax/Multi-core Transmission System







Multi-core Camera Control Unit MA-400



### System Application

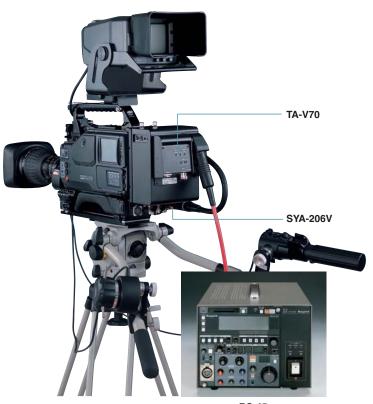
### EFP Application



**MA-400** 

### ■ Multi-core cable extension

By attaching the MA system adaptor MSA-206V and MA camera adaptor MCA-400 to the camera head, the DNS-33W can be used with the MA-400 CCU for multi-core cable operation. Customers gain increased versatility with camcorder which can also operate as system camera.



**BS-45** 

### ■ Triax cable extension

By attaching the TA system adaptor SYA-206V and the TA camera adaptor TA-45 to the camera head, the DNS-33W can be used with the BS-45 Base Station for triax cable operation. Full remote control and system interconnect over long cable distance is provided in triax configuration.

### Useful Accessory

#### ■ Unislot

The DNS-33W employs a newly designed Unislot on the rear portion of the camera housing for various plug-in accessories.



### ■ Slot-in wireless mic receiver (Option)

A slot-in wireless microphone receiver can be inserted into the Unislot without extra cable connection. The cableless design improves ruggedness and reduces size of equipment on the shoulder.



(SENNHEISER)

### ■ IEEE1394 output

Optional IEEE1394 video/audio output(no input and no remote control facility) is available. Regardless of the compression employed in the recording process, IEEE1394 output is done by DV codec.



### Accessories

### Portable Non-liner Disk Recorder



DNE-31 Editcam Station2

### Non-liner Editor





Avid MediaComposer Adrenaline

Avid XpressDV



Avid XpressPRO with Mojo

FieldPak Adaptor

SAT-110 USB2.0 Adaptor SAT-200 SCSI Adaptor

**Recording Media** 



FieldPak2-40G (HDD Type) (Fl

RAMPak-8G (Flash Memory Type)

### Triax/Multi-core Transmission System



TA-V70 Triax Camera Adaptor / SYA-206V System Adaptor



MCA-400 Multi-core Adaptor /MSA-206V System Adaptor



BS-45 Triax Base Station /RCP-50 Control Panel



BS-45 Triax Base Station /RM-45 Control Panel



MA-400 Multi-core Camera Control Unit



Triax Cable



CJ-102 Joint Connector MCC-10 (10m) MCC-30 (30m) MCC-50 (50m) MCC-100 (100m)

Multi-core Camera Cable

5-inch Viewfinder



VF5-6 5-inch Viewfinder

VF5075W 5-inch Viewfinder

### Battery&Light/Various models









Wireless Microphone/Various models



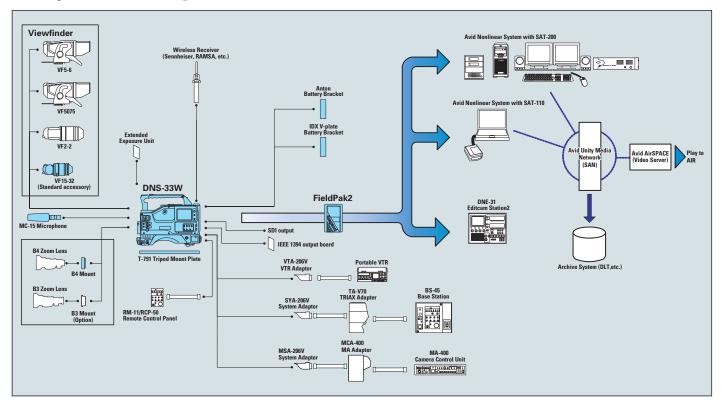




**Tripod/Various models** 



### System Diagram



### Specification

[Camera Portion]

Image Device 2/3" AIT 3CCD F11 at 2000Lux Sensitivity

Mimimum Illumination 0.03Lux

(F1.4 Lens, 48dB Gain-up, 50% Video level)

Signal to Noise Ratio 66dB Typical

Horizontal Resolution 750TV Lines at center

Resistration Error 0.02% (Except lens distortion)

-135dB under 100K times lighting condition Smear Level

A/D Converion Bit Rate 12-Bit

Gain Selection -3, 0, +3, +6, +12, +18, +30, +36, +42,

+48dB

Optical Filter ND: 100%, 25%, 6.2%, 1.6%

ECC: 3200K, 4300K, 6300K, 8000K

Electric Shutter 1/60(OFF), 1/100, 1/120, 1/250, 1/500,

(Preset) 1/1000, 1/2000sec.

Variable Shutter 2H(1/7867sec) to 260H(1/60.5sec) [Recording Portion]

Compression Codec JFIF(3:1/10:1/20:1), DV25, DV50(\*),

> MPEG50(\*) \*Option

Recoriding Time 165 Minutes approx.

(DV25, 40GB FieldPak2)

Video PGM Output BNC 75ohm, 1Vp-p Video MON Output BNC 75ohm, 1Vp-p

Number of Audio Input 4ch

Audio Sampling 16Bit, 48KHz/44.1KHz

[Overall]

**Power Consumption** 27W approx.

**Ambient Temperature** 0 to +40 degree C /

+32 to +104 degree F (Operation)

W138×H250×D320mm / **Dimensions** 

W5.43×H9.84×D12.60inches

Camera Head Weight 4.3kg approx. / 9.74lb approx.

(Excluding Lens and VF)

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