The Z-4000W incorporates the latest technological advancements for the professional and broadcast market.

Hitachi has once again elevated the standard by which professional video cameras are judged with the introduction of our Z-4000W. This latest generation of Z-camera has improved performance over previous models by the incorporation of the newest electronic devices and circuit designs. Popular features such as aspect ratio switching have been retained to facilitate TV program production for SD TV in 4:3 and HDTV in 16:9. Pristine picture quality in both aspect ratios is provided by the use of new high-performance CCD imaging devices. These new CCDs bring to reality never before seen performance in the areas of picture quietness, highlight smear suppression and object depth-of-field characteristics. Hitachi's Digital Signal Processing now benefits from an increased dynamic range and resolution offered by the latest generation of 12 bit Analog to Digital converters at the output of the CCD imaging device.

The new ADCs make it possible to eliminate analog pre-processing associated with older devices thereby decreasing the manipulation of the image signal prior to digital processing. Hitachi's latest Digital Signal Processor VLSIC is at the heart of the Z-4000W's upgraded performance. This new DSP offers superior color rendition and reproduction characteristics while offering the highest accuracy in edge definition. This translates to cleaner, sharper images. Also performed in the digital domain within the Z-4000W's DSP device, are video signal encoding and advanced noise reduction for low-light scenes.

The Z-4000W camera is also easily configured for studio use. Hitachi's newly designed FM-modulated triax system has also been improved over previous systems. The new features include extended cable distance between camera control unit and camera head, lower noise figures and higher signal to noise ratio. The technology, newly added features, and performance of the Z-4000W camera will guarantee the best in quality video production at a reasonable price.
Outstanding Features

Resolution
The outstanding 850 TV line in 4:3/800 TV line in 16:9 resolution and -130dB low smear even though IT CCD are due to the newly developed 2/3-inch, 16:9 wide aspect ratio, 520,000 pixel CCD.

Switchable 16:9/4:3
The Z-4000W provides the video professional the freedom to do productions in a 16:9 or 4:3 aspect ratio at the push of a button. The 2/3-inch, 520,000 pixel CCD’s and digital switching assure the highest picture quality is preserved in either aspect ratio.

Next-Generation DSP
Hitachi’s unique DSP technology encompasses the video digital processing and the encoder into a single LSI device. This single chip 5 million gates 0.18μm DSP design reduces the size, power consumption and greatly enhances stability.

Signal to Noise Ratio
With the new digital noise reduction and low noise DSP technology, a S/N ratio of 65dB is provided. This new technology assures clear low noise images while operating in the high gain modes.

Sensitivity - F11(2000 lx)
A total of +42dB of gain is available for imaging low light scenes down to 0.25 lx (f1.4). The +42dB gain is a combination of +24dB high gain, low noise +12dB ultra-gain and +6dB digital gain.

Setup card
A small plug-in setup card (Compact Flash type) stores the user setup information for later recall. The setup card offers operational flexibility by storing and recalling setups optimized for individual scenes.

Versatile CCD Shutter
Four modes of shutter operation are provided: Five Preset electronic shutter speeds, Lock Scan to image computer monitors without flicker, Auto Electronic Shutter (AES) maintains the video level with a fixed lens f-stop, and CC Frame offers improved vertical resolution.

Digital Processing Improves
Image Highlight Quality
Dyna-Chroma and Auto Knee
The auto knee provides a wide dynamic range by compressing the video above 100IRE. Dyna-chroma restores color saturation to scene highlights above 100IRE.

Automatic Flesh Tone Detail
Flesh tone detail smooths and softens facial lines and blemishes without sacrificing overall scene detail. Automatic flesh tone detail provides an easy and fast means to optimize flesh tone detail.

Variable Detail Boost Frequency
The detail center frequency is user selectable to match the detail signal to the scene.

6-Vector and Linear Matrix
The 6-vector color corrector and linear matrix provide the user a wide latitude in subjective image color control. The linear matrix provides overall color control and the 6-vector color corrector provides independent control of the hue and saturation for each of the three primary and three secondary colors.

Special Gamma
Adjusts the initial gamma gain to optimize the reproduction of the dark scene components.

Gray Scale Automatic Setup
This “through the lens” automatic is used in combination with a standard gray scale chart to automatically setup gain, gamma, black and flare. Markers are provided in the viewfinder to aid in the positioning of the gray scale chart and the iris is automatically adjusted to the correct video level.

Automatic shading
Automatic shading corrects white vertical shading at the push of a button. This automatic provides separate setups to optimize the X1 and X2 lens extender positions.

Extensive User-Friendly Features
• Built in WIDE ID PULSE
The Wide Aspect Ratio ID Pulse to signals monitors and projectors to switch to 16:9 Aspect Ratio automatically when using corresponding monitors.

• Quick Focus
Quick Focus automatically opens the iris then sets the video level with the electronic shutter. With the resulting shallow depth of focus, the exact focus point can be set easily.

• Two User-Programmable Switches (CS-1, CS-2)
The user can assign full auto, quick focus or contrast to either of the two programmable switches for ease of operation.

• Full Auto
The built-in automatic electronic shutter (AES) and automatic iris maintain the video level even with radically changing light levels. Real-time automatic white balance corrects for color temperature variations due to changing types of lighting conditions. Four scene files are provided to store and recall functions such as gain, detail, masking, gamma and other settings.

• A 4-point star filter is included in filter wheel.
• Camera ID, date and time are displayed on the color bar display.
• Audio test tone (1kHz) is output when color bars are selected.

Viewfinder Displays
• The viewfinder displays the function tree menus.
• Status display
Indicators for zoom and focus (with compatible lenses), iris F-stop, color temperature for auto white balance and other functions are displayed.

• Two mode zebra
Menu selection of over-level or between range zebra is provided.
• Battery remaining
Fuel-gauge for Anton Bauer Digital interactive batteries. Displays percentage of battery power remaining.
• Viewfinder V-Detail
Vertical detail is enhanced in both the 1.5-inch VF (GM-9) and 5-inch VF (GM-51) viewfinders for easy lens focus. Horizontal detail is also provided.
High Performance 1.5 inch Viewfinder (GM-9)
- Offers automatic switching between 16:9/4:3 display when the camera aspect ratio is changed.
- The 600 TV line resolution assures easy focus.
- Large aperture lens improves viewfinder viewing.
- Front-back, left-right and tilt positioning is provided for optimum user comfort. The bayonet mount provides a direct connection to the camera eliminating the need of a cable.
- Rotates to a perpendicular position for convenient carrying.

Advanced Ergonomics
- New low center of gravity design.
- Main operation switches are grouped forward for easy access.
- Featherweight design (camera head 2.6 kg) is ideal for portable use.
- Adjustable shoulder pad position and non-slip finish provide on-the-shoulder balance, comfort and confidence.

Camera adapter with D1 output for Z-4000W CA-ZD1
Digital serial output combining with Z-4000W Camera.
- 10-bit 4:2:2 Component Digital Interface (D1) SMPTE 259M-C
- EDH (Error Detection and Handling) signal SMPTE RP165

Two D1 output (BNC connector, 26Pin connector)
The 26Pin VTR connector can be switched to provide a D1 or VBS output.

(note: can not be used with RU-Z1 / RU-Z3)

RC-Z33 Camera control panel
- RC-Z33 Camera control panel with 11 potation meters control the Z-4000W camera.
- One-touch continuously variable color temperature control.
- The user can select from fifteen available functions for assignment to the five programmable switches.
- Function menu controls via push-select, non-wearing rotary encoders.
- Variable lens iris sensitivity and range control are visually displayed with LEDs and provide subtle and exact adjustments.

MP-Z3000 Multi control Panel
- MP-Z3000 Multi control Panel provides complete control for up to 12 Z-4000W camera.

FUNCTION MENU Z-4000W
New Triax

High quality video transmission
The wide bandwidth of the Y(10MHz) and Pb/Pr(5MHz) component FM transmission provide high resolution video with a high S/N ratio. A digital comb filter improves cross color artifacts in the video output.

Digital audio transmission
To provide the highest quality microphone and intercom audio, bi-directional digital transmission is used between the camera head and base station for all audio signal and control data.

Versatile intercom functions
The intercom is RTS/Clear-Com compatible and is selectable for, 2-wire and 4-wire and other intercom systems. At the camera head, the operator can select the PD or ENG intercom channel.

Base station video outputs
The base station provides 3 encoder outputs, 1 set of RGB or Y, Pb, Pr outputs, 1 pxr monitor output and 1 waveform monitor output.

Base station video inputs
2 return video inputs and 1 prompter video input are provided. The return video signal is selected at the camera head.

TU-Z3A New CCU (Triax base station) and CX-Z3A (Triax adaptor)

Digital video interface (optional)
2 D1 serial digital outputs and 2 D1 serial digital inputs for return video are available as options. With this system, cable length up to 1900 meters (14.5mm Fujikura cable) may be used by FM modulation triax system.

AC/DC operation
The base station provides for both AC and DC operation. DC operation allows the triax system to use less costly coaxial cable.

Half rack base station
The compact base station is a half rack width and 4 rack units height. The flexible camera control panel (RC-Z3) can be mounted on the front panel of the base station or mounted in a desktop depending on the application.

TRUNK VIDEO (Optional)
This function optionally provides the ability to send an external video signal source input at the camera head to the CCU via the existing triax cable. The PROMPT RF transmission is reversed by a simple switch on the camera’s triax unit for instances were a video feed need take advantage of the camera’s existing location without running any other video cables to recover that feed at the CCU.

TU-Z3A/CX-Z3A triax system Specification

<table>
<thead>
<tr>
<th>Component</th>
<th>Input signal</th>
<th>Connector type</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN LOCK</td>
<td>8.0/7.5</td>
<td>BNC</td>
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<tr>
<td>RET 1,2</td>
<td>5.0/4.5</td>
<td>BNC</td>
</tr>
<tr>
<td>DIGITAL RET 1,2</td>
<td>5.0/4.5 (loop through)</td>
<td>BNC</td>
</tr>
<tr>
<td>INTERCOM</td>
<td>4 Wire or 3 Wire</td>
<td>BNC</td>
</tr>
<tr>
<td>PSN</td>
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<td>BNC</td>
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<tr>
<td>R/G TALLY</td>
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<td>BNC</td>
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<td>REMOTE 1</td>
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<td>BNC</td>
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<td>REMOTE 2</td>
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<table>
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<tr>
<th>Component</th>
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<th>Connector type</th>
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<tr>
<td>Pr or R, Y or G, Ps or B</td>
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<tr>
<td>DIGITAL OUT</td>
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Note: CABLE is determined by the user. (XLR-3pin, BNC, D-sub 15pin, etc.)

Triax Cable

<table>
<thead>
<tr>
<th>Cable type</th>
<th>Diameter (mm)</th>
<th>Maker</th>
<th>Maximum cable length(m)</th>
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<tbody>
<tr>
<td>4.8/1.0 STRF</td>
<td>8.6</td>
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<tr>
<td>9.0/2.2 STRF</td>
<td>14.5</td>
<td>Fujikura</td>
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<tr>
<td>9.0/1.1</td>
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<td>BelDEN</td>
<td>1220</td>
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<tr>
<td>9.0/0.8</td>
<td>15.2</td>
<td>BelDEN</td>
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<td>1.0/0.55</td>
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<td>1.45/0.65</td>
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Video board width (Board size)

<table>
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<tr>
<th>Component</th>
<th>Width (mm)</th>
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<tr>
<td>Input</td>
<td>80</td>
</tr>
<tr>
<td>Output</td>
<td>88</td>
</tr>
</tbody>
</table>

Power supply voltage
- AC117 V 60 Hz
- DC117 V 60 Hz

Power consumption
- 130 W approx. (AC operation, including Z-4000W/GM-51 and AC/DC operation)
- 110 W approx. (DC operation, including Z-4000W/GM-51)

Ambient Temperature
- Operating: –20°C to +60°C
- Storage: –30°C to +70°C

Dimensions
- TU-Z3A: 212(W) x 163(D) x 215(H) mm
- CX-Z3A: 165(W) x 156(D) x 215(H) mm

Mass
- TU-Z3A: 9.0 kg (19.9 lb) approx.
- CX-Z3A: 3.0 kg (6.6 lb) approx.
**Suggested System Configurations**


**Studio operation Enhancement**
The optional EA-Z3 Extension Adapter adds (in combination with the RU-Z3) intercom PD/ENG switching, prompter video output, mic 2 input, call, and Aux 1 and 2 switching to a studio system.

**RU-Z3 Features**

- SMPTE26 bayonet connector
  - The 26 pin bayonet connector is easily attached and detached.

- Augmented camera power supply
  - Approximately 70W of power is available for connecting other equipment. (Although varies with the system configuration, 40 to 50W can be taken from the CA-Z32 camera adaptor.)

- Intercom system support
  - Intercom systems such as RTS, Clearcom and 4 wire are supported, as well as 2 channel systems.

- Waveform monitor (WFM) output
  - Video output for a waveform monitor and control output are provided. The RC-Z3/Z21A or a personal computer can be used for fine color and level adjustment.

- Enhanced functions
  - Two channel microphone outputs and an auxiliary inputs are provided. A prompter input has been added, together with other significant functional enhancements.

- Bi-directional communications
  - Camera control is advanced by a bi-directional serial control signal communication system.

- Serial digital interface (D1)
  - High quality digital component signals can be sent to other digital video equipment with a single coaxial cable. The added EDH (error detection and handling) function is be used for transmission error detection by the receiving equipment.

**Digital Wireless Camera**

- Complete end to end MPEG2 DVB-T Wireless Camera System
- Short Delay 40 ms in spite of Digital Transmission
- Anti-freeze with 2 or 4 input diversity reception
- Built-in CODEC for PAL/NTSC and SDI interface selectable
- Frequency range changes 200 MHz band width from 1.9 to 2.7 GHz optionally
- Output Power 10 mW/MHz max
- Designed for Broadcast and Electronic News Gathering

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**Control Item List**

<table>
<thead>
<tr>
<th>Control Item</th>
<th>RU-Z1</th>
<th>RC-Z31</th>
<th>RU-Z3</th>
<th>RC-Z32/ Z21A</th>
<th>TU-Z3A</th>
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<tbody>
<tr>
<td>SC Phase, B Phase adjustment</td>
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<td>Cable length adjustment</td>
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<td>Tally / Call</td>
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<td>IRIS mode selector</td>
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<td>CONTROL (OFF / LOCK /ON) selection</td>
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<td>SHUTTER ON / OFF</td>
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<td>CONTRAST ON / OFF</td>
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<td>B/W / A/W B/W selection</td>
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</tbody>
</table>
ACCESSORIES

- **CA-Z31** Camera adaptor for RU-Z1
- **CA-Z32** Camera adaptor for RU-Z2
- **EA-Z3** Extension adaptor for CA-Z32
- **QB-OP500** Battery mount for ANTON BAUER
- **WA-23** Microphone holder
- **C-300MA** Microphone cable
- **GM-9** 1.5-inch view finder
- **GM-51** 5-inch view finder
- **AT-30** View finder adaptor for GM-51
- **MT-12MF** Headset
- **EA-Z3** Tripod adaptor
- **C-900KA/C-150KA/C-100KA** Camera cable
- **DI-Z3** D1 Digital interface for TU-Z3
- **AZZ-1.4AABM-24** Zoom lens
- **VLF-79** 9-inch view finder
- **C-502KAB/C-152KAB/C-103KAB** Camera cable

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Z-4000W
Wide switchable system configuration
**SPECIFICATIONS : Z-4000W Camera Head**

- **Color System**: NTSC
- **Optical system**: 2/3" F1.4 prism
- **Pickup system**: RGB 3IT-CCD, 2/3"Image format
- **Imaging size**: 16 : 9 9.6 x 5.4mm, 4 : 3 8.8 x 6.6mm
- **Smear level**: –130dB (typical)
- **Sync system**: Internal or genlock
- **Horizontal resolution**: 850 TV lines (4 : 3), 800 TV lines (16 : 9)
- **Signal-to-noise ratio**: 65dB (typical) (Gamma : 1, DTL :OFF, Gain : 0dB, Y OUT)
- **Standard sensitivity**: F11 at 2000 lx
- **Minimum illumination**: 0.25 lx F1.4 / 0.42 lx F1.8 (Gain : +24dB, ULTRA-Gain, digital gain : on)
- **Gamma correction**: 0.35 to 1.0 (ON/OFF switchable)
- **Geometric distortion**: All zones : less than measurement limit (excluding lens)
- **Registration**: All zones : less than 0.05% (excluding lens)
- **Optical filters**: 3200K, 5600K +1/16ND, 5600K, cross filter
- **Vertical detail correction**: DTL controls: 2H DTL LEVEL, DTL FREQ, FLESH TONE, LEVEL DEP, CRISP, H-V BAL, SOFT DTL, etc.
- **Lens mount**: Bayonet (Backfocus : 48mm in air)
- **Gain selector**: Low : 0dB/–3dB, Mid : +6/ +9 / +12dB, High: +12/ +18 / +24dB, Remote mode : –3 to +24dB (3dB steps)
- **ULTRA-Gain function**: Gain is increased by approx. +12dB by switching the read-out mode of CCD (Horizontal resolution is lowered)
- **Gain is increased +6dB by Internal processing of DSP**
- **Scene file**: 4 scene files
- **Setup card file**: 4 (scenes files and other menu items)
- **Electronic shutter**: Preset mode: 1/100, 1/250, 1/500, 1/1000, 1/2000, CC FRAM, Scan mode: approximate 1/60 to approximate 1/2000 (in 1H steps), Automatic Electronic Shutter AES mode: (up to 4 frames/step)
- **Input signals**: 1.Gainlock input (UNC or multi-connector) : VBS 1.0Vp-p or black burst
- **Output signals**: 1.Video output (BNC) : VBS 1.0Vp-p / 75, 2.VTR output (multi-connector) : VBS 1.0Vp-p / 75, 3.VTR output (2multi-connector) : a: Composite signal : VBS 1.0Vp-p / 75, b: Y output : 1.0Vp-p / 75, 0.286Vp-p (burst), c: RGB output : RGB : 0.714Vp-p / 75, Y, B-Y : 0.7Vp-p / 75, 0.535Vp-p / 75, 0.525Vp-p / 75, 0.525Vp-p / 75 (BETACAM, 75% color bars), 0.525Vp-p / 75 (MII, 75% color bars), d: Memory output (UNC) : VBS 1.0Vp-p / 75 , with characters
- **Audio output**: 5 Audio output (multi-connector): –50dBv or –50dBm

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**SPECIFICATIONS : GM-9 1.5-inch Viewfinder**

- **Input signal**: VS 1.0Vp-p, sync negative
- **CRT**: 1.5" B/W
- **Resolution**: 600 TV lines approx. (horizontal center)
- **Aspect ratio**: 16:9 / 4:3
- **LED display**: TALLY, BATT, SAVE, (!) Warning indicator : out of standard application
- **Controls**: Brightness, Peaking, Contrast, Focus tally ON/OFF
- **Power supply**: 9V DC
- **Power consumption**: 1W approx.
- **Mass**: 0.6kg (1.3 lb) approx.

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**SPECIFICATIONS : RU-Z1 and RU-Z3**

### RU-Z1
- **LINE 1 / 2**: VBS 1.0Vp-p/75
- **MON**: VBS 1.0Vp-p/75
- **RGB R-Y, Y, B-Y**: V : 0.7Vp-p VS1.0Vp-p/75
- **AUDIO output**: 0dB, 20dB, 40dB, mono system or 0dB, 30dB, 60dB, 90dB, stereo
- **PROMPT**: – VBS 1.0Vp-p/75 or loop-through
- **AUX VIDEO**: VBS 1.0Vp-p/75 or loop-through
- **GENLOCK**: 0.6Vp-p, 300KHz or loop-through
- **INTERCOM**: XLR-3pin Corresponding to dynamic mic
- **RS-232C**: D-sub 9pin
- **Power requirements**: 117V AC, 60Hz
- **Power consumption**: 125W approx.
- **Ambient temperature**: 5 to 40°C (41 to 104°F)
- **Dimension**: 482(W) x 305(H) x 305(D)mm (19.0 x 12.0 x 11.8 in)
- **Mass**: 7.6kg (16.8 lb) approx.

### RU-Z3
- **INPUT signals**: 0dBv, 200KHz, 400KHz, 600KHz, Mic 1 & Mic 2
- **OUTPUT signals**: – VBS 1.0Vp-p/75 or loop-through
- **AUX VIDEO**: VBS 1.0Vp-p/75, 300KHz or loop-through
- **GENLOCK**: 0.6Vp-p
- **INTERCOM**: XLR-3pin Corresponding to dynamic mic
- **RS-232C**: D-sub 9pin
- **Power requirements**: 117V AC, 60Hz
- **Power consumption**: 125W approx.
- **Ambient temperature**: 5 to 40°C (41 to 104°F)
- **Dimension**: 482(W) x 305(H) x 305(D)mm (19.0 x 12.0 x 11.8 in)
- **Mass**: 9.5kg (21 lb) approx.

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**CAUTION**: To ensure safe operation, please read the instruction manual before using this product.

**Hitachi Kokusai Electric Inc.**

These Specifications are subject to change without notice.