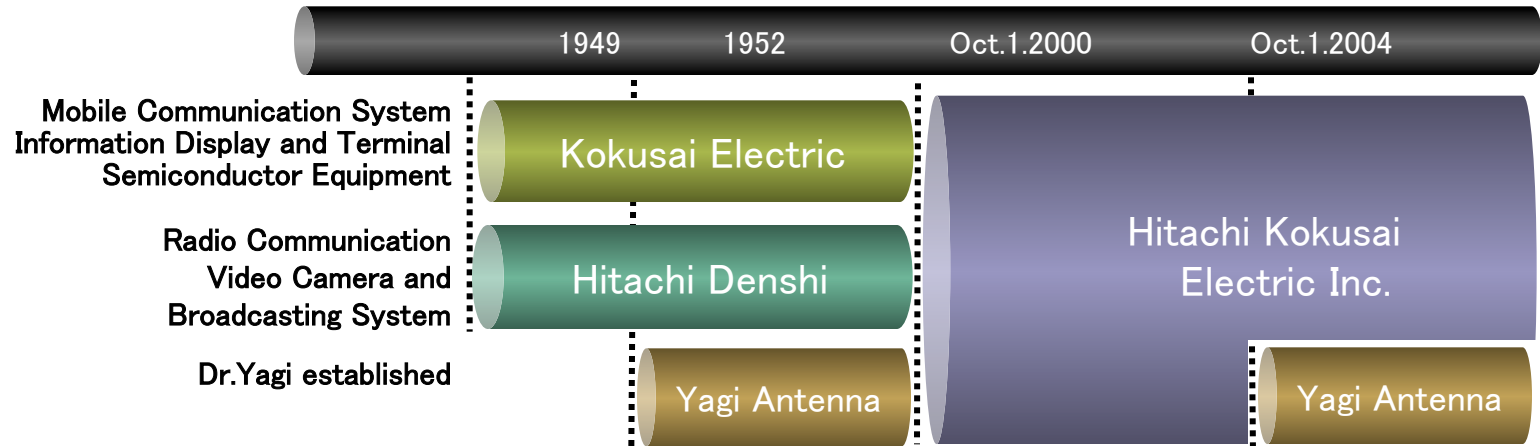


# Contents

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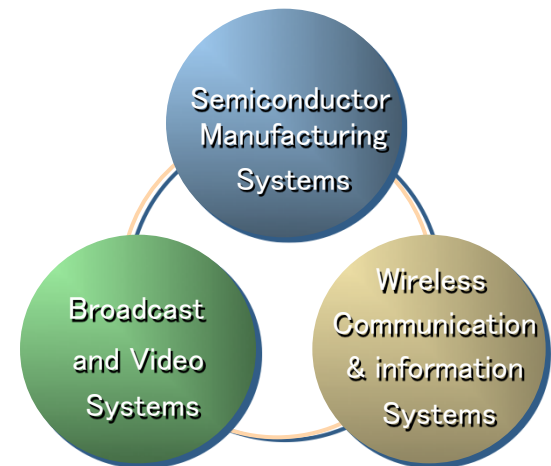
- 1. Hitachi Kokusai Inc Japan Overview**
- 2. Hitachi Kokusai Europe Overview**
- 3. B&P Products & Solutions**
- 4. General News of Hitachi Kokusai**
- 5. Main Customer Base inside EU**

# 1-1 Hitachi Kokusai Inc Japan



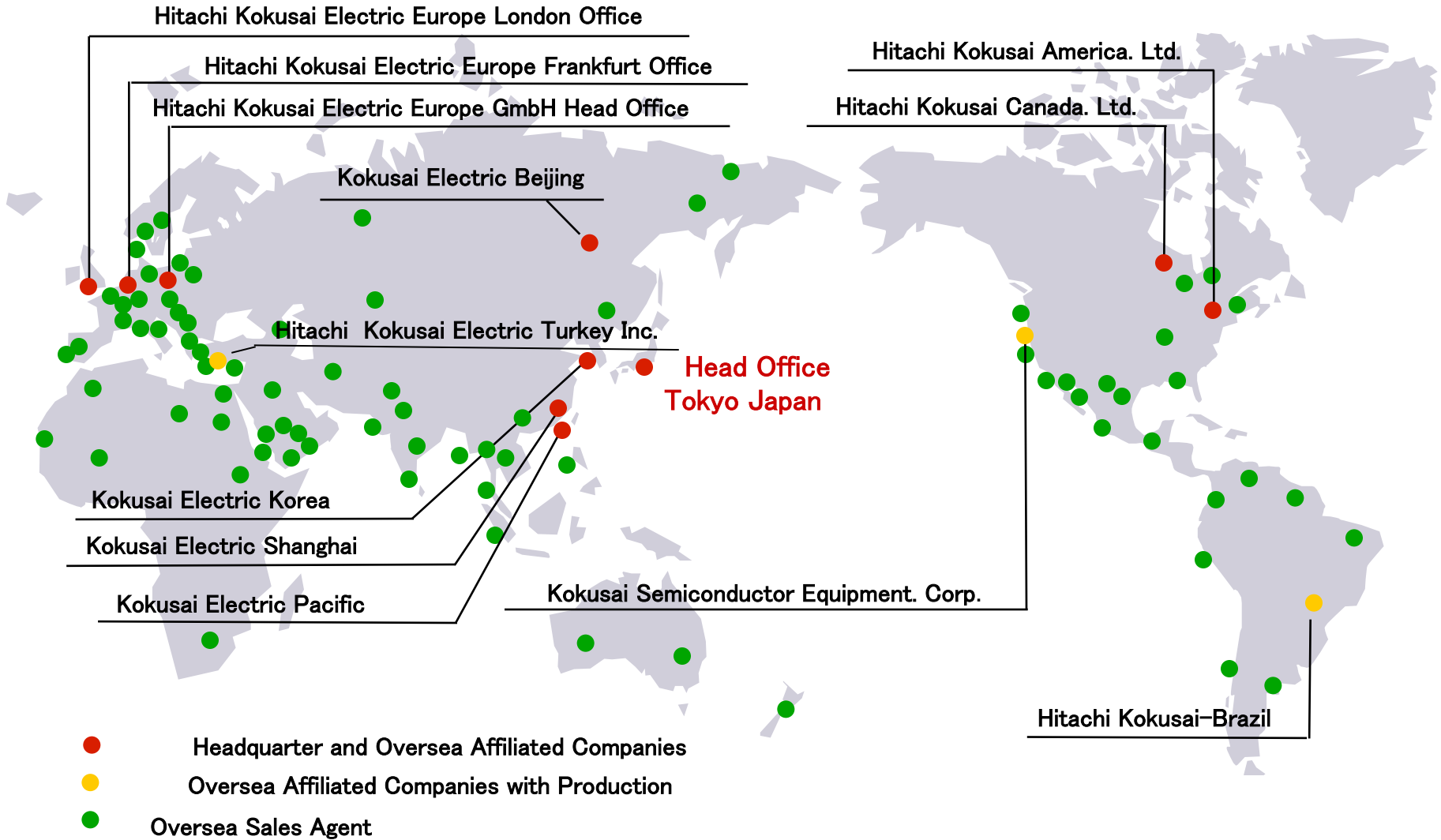
## Business Unit Revenue FY 2013

● Capital: \$ 144 million ● Sales: \$ 1.626 million ● Employees: 4,980



*Ubiquitous information society*

# 1-2 Hitachi Kokusai Inc Worldwide Network

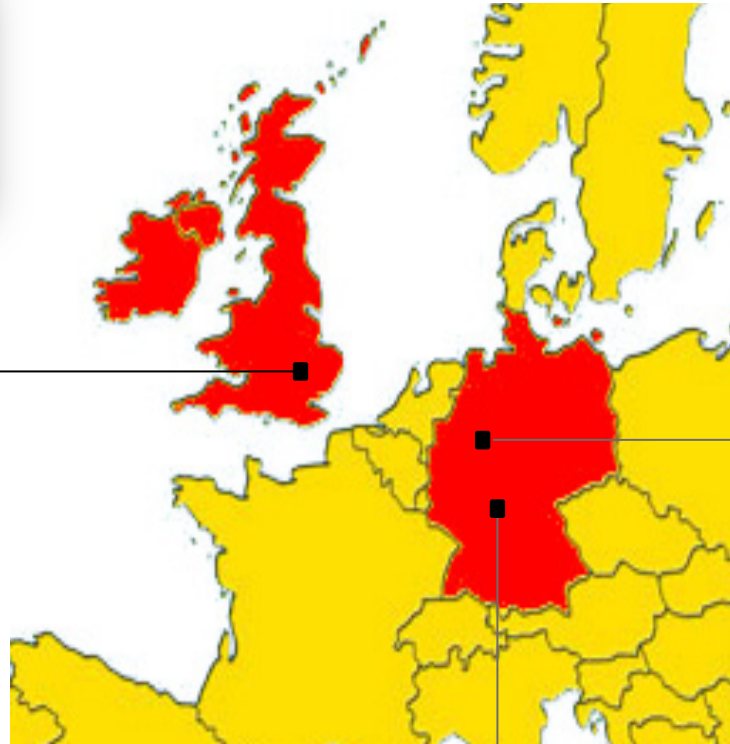


# 2-1 Hitachi Kokusai Electric Europe GmbH



## London

Sales, Service & Support  
(UK & EU)



## Erkrath (Headquarter)

Administration  
Logistics



## Frankfurt

Sales, Service & Support  
(Germany & EU)

# 2-2 Hitachi Kokusai Europe Sales Area



## Newest Generation of HDTV Cameras

❖SK-HD1500/S2

HDTV 3 x Super Slow Motion Broadcast Production Camera

❖SK-HD1200/S2

HDTV 1080p, 2.3Mpixel 2/3" CCD 16 bit A/D 3G High-End Broadcast Production Camera

❖SK-HD1000/S2

HDTV 1080i, 2.3Mpixel 2/3" CCD 16 bit A/D High-End Broadcast Production Camera

❖SK-HD1000-S4

HDTV 720p, 2.3Mpixel 2/3" CCD 16 Bit A/D High-End Broadcast Production Camera

❖Z-HD6000

HDTV 1080i, 2.6Mpixel 2/3" MOS 14 bit A/D Broadcast Production Camera

❖Z-HD5000

HDTV 1080i, 1.3Mpixel 2/3" CCD 14 bit A/D Broadcast Production Camera

❖SK-HD2000/2200

Studio Body Type of SK-HD1200/SK-HD1000 Broadcast Production Cameras



SK-HD1500  
SK-HD1200/1000  
Z-HD6000/5000



SK-HD2000/2200

# 3-2 B&P Products & Solutions

Camera Concept: **Dockable Design**

One Camera Head with multi interface for multi application



**Hybrid Fiber**



**Digital Triax**



**Wireless**



**Solid State (P2HD)**



**Studio Body**



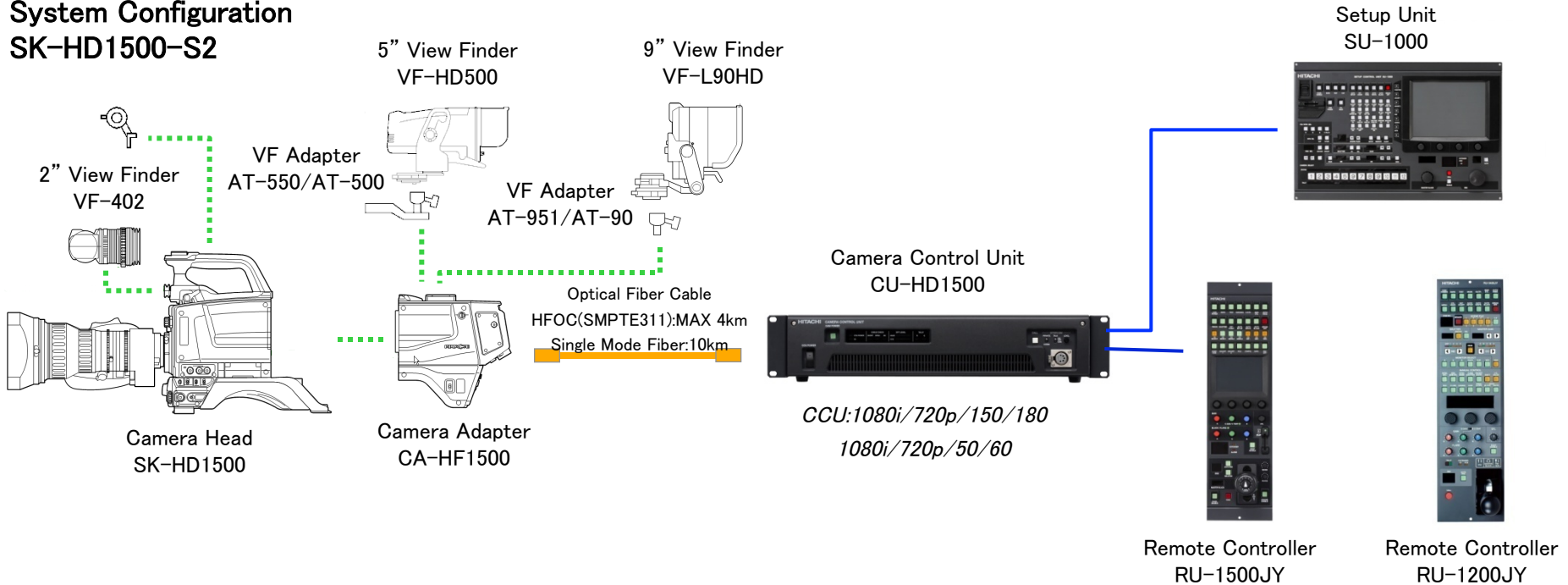
**3 x Super Slow Motion**



**Box Type POV**

# 3-3-1 Super Slow Motion Camera SK-HD1500

## System Configuration SK-HD1500-S2



**Multi frame rate:** 3x and 1x speed simultaneous HD Output

1080i 150/179,82Hz or 720p 150/179,82Hz

1080i 50/59,94Hz or 720p 50/59,94Hz

**High Sensitivity:** F9 (1080i/150i) // F8 (1080i/179,82) at 2000 lx

**High Resolution:** 1100TVL

**High Signal to Noise:** -58dB typical at 1080i/50i/59,94Hz// -54dB Typical at 1080i/150/179,82H

**CU-HD1500 Camera Control unit with selectable HD Outputs**

HD-SDI:1080/150i, 720/150p 1080/50i, 720/50p (Single link SMPTE245 or Dual link) SD Output (D1) 480i/60, 575i/50 Si

**Accessories:** Are all common with SK-HD & Z-HD series (VF, SA, RCP, MCP, cables)

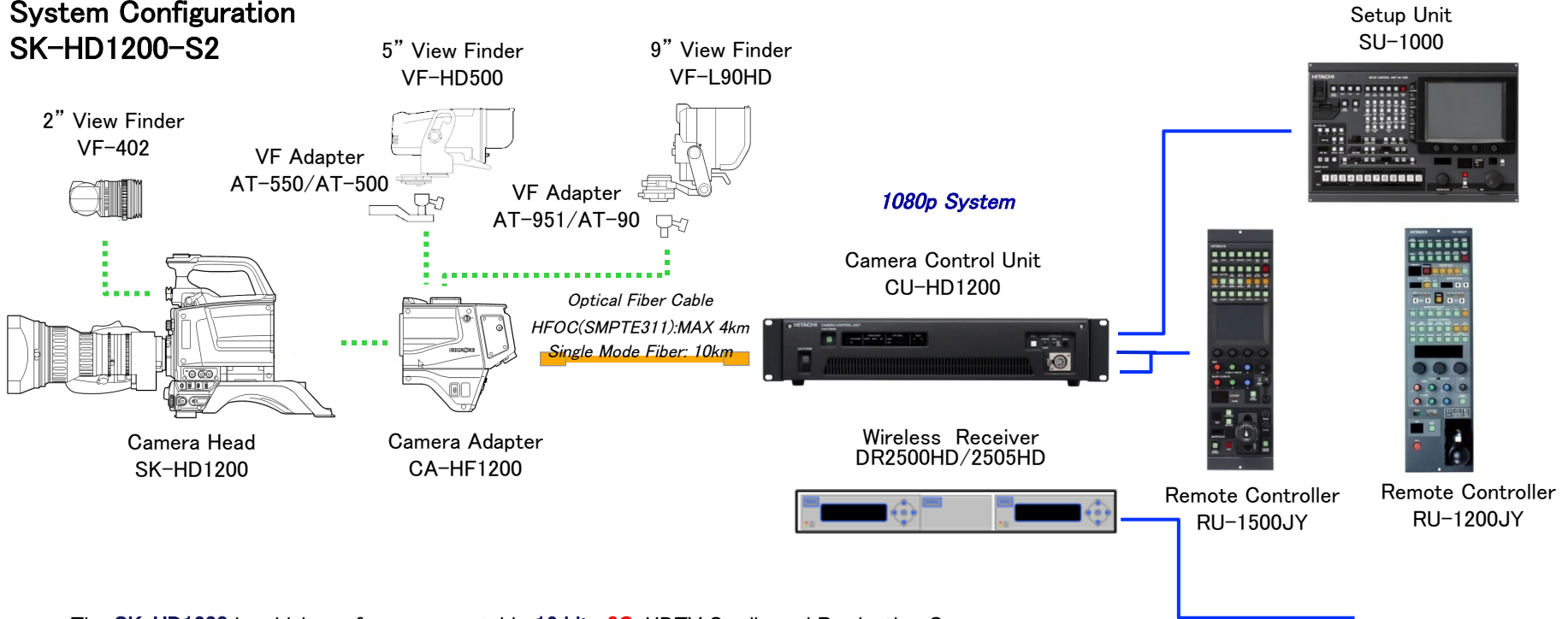
**Power Consumption:** 60w (Head without VF)

**Weight:** 2.2Kg (Head only) 4,4Kg (Head + Camera Fiber adapter)



# 3-3-2 1080p 3G Camera SK-HD1200

## System Configuration SK-HD1200-S2



The **SK-HD1200** is a high-performance portable **16 bit-3G**-HDTV Studio and Production Camera. With its new **2.3 million pixels native 1080p 3-CCD**, the SK-HD1200 provides outstanding performance.

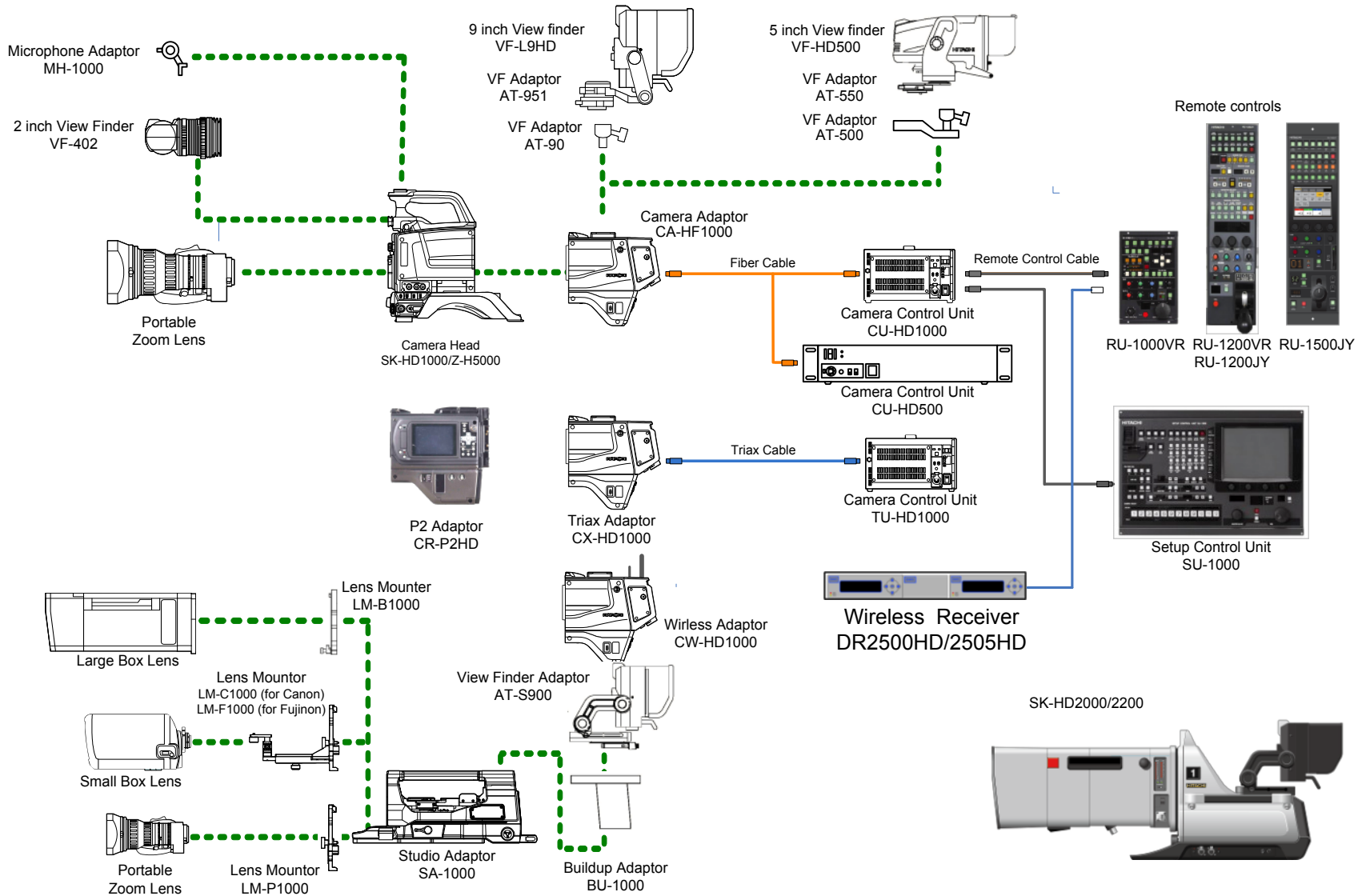
**High Sensitivity:** F8 (1080p), F10 (1080i) at 2000lx  
**High Resolution:** More as 1100TVL  
**High Signal to Noise:** -61dB

**CU-HD1200 Camera Control unit with selectable HD Outputs**  
 1080p/1080i/720p/50/60Hz/ SD Output (D1) 480i/60, 575i/50 simultaneously  
**Accessories:** Are all common with SK-HD & Z-HD series (VF, SA, RCP, MCP, cables)  
**Power Consumption:** 24w (Head without VF)  
**Weight:** 2.2Kg (Head only) 4,4Kg (Head + Camera Fiber adapter)

### SK-HD1200 Series

SK-HD1200E	Portable 1080p Native w/ 1x Optical wheel ND and ECC
SK-HD1200E -S2	Portable 1080p Native w/ 2x Optical Filter wheel ND/CC
SK-HD2200	Studio 1080p Native w/ 2x Optical Filter wheel ND/CC

# 3-3-3 System Configuration 1080i Cameras



# 3-3-4 1080i Camera Series

The **SK-HD1000** is a high-performance portable **16bit** A/D HDTV Studio and Production Camera with 2.3 million pixels native 1080i or 720p 3-CCD

**High Sensitivity:** F10 (1080i) at 2000lx

**High Resolution:** More as 1100TVL

**High Signal to Noise:** -61dB

**CU-HD1000/TU-HD1000 Camera Control unit with selectable HD Outputs**

1080i/720p/50/60Hz/ SD Output (D1) 480i/60, 575i/50 simultaneously

**Accessories:** Are all common with SK-HD & Z-HD series (VF, SA, RCP, MCP, cables)

**Power Consumption:** 16W (Head without VF)

**Weight:** 2.2Kg (Head only) 4,4Kg (Head + Camera Fiber adapter)

## SK-HD1000 Series

SK-HD1000E	Portable 1080i Native w/ 1x Optical wheel ND and ECC
SK-HD1000E -S2	Portable 1080i Native w/ 2x Optical Filter wheel ND/CC
SK-HD1000E-S4	Portable 720p Native w/ 2x Optical Filter wheel ND/CC
SK-HD2000	Studio 720p Native w/ 2x Optical Filter wheel ND/CC

The **new Z-HD6000** is a high-performance cost effective portable **14bit** A/D HDTV Studio and Production Camera with 2.6 million pixels native 1080i 3-MOS

**High Sensitivity:** F13 (1080i) at 2000lx

**High Resolution:** More as 1100TVL

**High Signal to Noise:** -60dB

**CU-HD500/CU-HD1000/TU-HD1000 Camera Control unit with selectable HD Outputs**

1080i/720p/50/60Hz/ SD Output (D1) 480i/60, 575i/50 simultaneously

**Accessories:** Are all common with SK-HD & Z-HD series (VF, SA, RCP, MCP, cables)

**Power Consumption:** 16W (Head without VF)

**Weight:** 2,1Kg (Head only) 4,3Kg (Head + Camera Fiber adapter)

## Z-HD6000

Portable 1080i Native w/ 1x Optical wheel ND and ECC

The **Z-HD5000** is a high-performance cost effective portable **14bit** A/D HDTV Studio and Production Camera with 1.3 million pixels native 1080i 3-CCD

**High Sensitivity:** F10 (1080i) at 2000lx

**High Resolution:** More as 800TVL, with high mix mode switchable to 1000TVL

**High Signal to Noise:** -58dB

**CU-HD500/CU-HD1000/TU-HD1000 Camera Control unit with selectable HD Outputs**

1080i/720p/50/60Hz/ SD Output (D1) 480i/60, 575i/50 simultaneously

**Accessories:** Are all common with SK-HD & Z-HD series (VF, SA, RCP, MCP, cables)

**Power Consumption:** 16W (Head without VF)

**Weight:** 2,2Kg (Head only) 4,4Kg (Head + Camera Fiber adapter)

## Z-HD5000

Portable 1080i Native w/ 1x Optical wheel ND and ECC

# 3-3-5 Camera Adapter & CCU's



**6G Fiber camera adapter**  
**CA-HF1500**



**3G Fiber camera adapter**  
**CA-HF1200**



**1,5G Fiber camera adapter**  
**CA-HF1000**



**1,5G Triax camera adapter**  
**CX-HD1000**

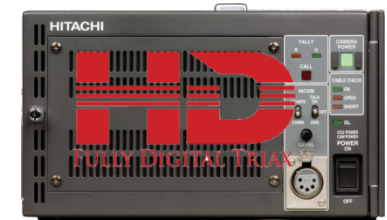
Connector: 1x HF0C female Lemo SMPTE-304M-Type

Connector: 1xtype Fischer

**CU-HD1000 Fiber 1080i/720p**

**CU-HD500 Fiber 1080i**

**TU-HD1000 Triax 1080i/720p**



**CU-HD1200 Fiber 3G Full Rack**

**CU-HD1500 Fiber 6G Full Rack**



# 3-3-6 Remote Controller & View Finder

RU-1500JY



RU-1200JY



RU-1000VR



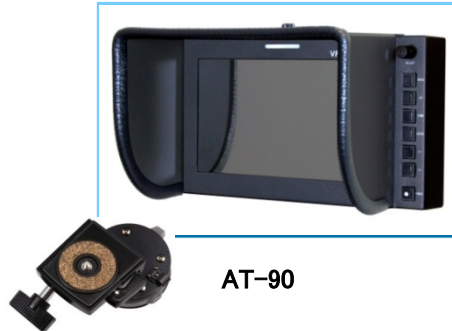
SU-1000 Master Setup unit with data cable up to 12 cameras, via IP Network up to 128 camera controls



2" CRT VF-402



7" Color LCD HDF-700H  
7" Color LCD VF-PBM-207



5" CRT HD VF-HD500



9" Color LCD VF-L9HD/90HD



# 3-3-7 Box Cameras

The DK-H100 is a Box Type version of the SK-HD1000 and the DK-Z50 of the Z-HD5000.

- HD-SDI(1080i)/SD-SDI (16:9/4:3) Output and Monitor Output.
- Built in Motorized filter wheel with 4 positions, ECC Filter w/5 position
- Serial data/RS-232C interface
- IP Control interface(RJ-45)
- Single Fiber output (optional)
- Small & light weight head: 99(W) x 105(H) x 155(D),1.5Kg

Camera can be controlled with all Hitachi remote Controller or via a Pan-tilt Controller .

HV-HD33 is a Multi Format 3MOS HDTV C-Mount Camera with

- 1/3" type 1.3Mega-pixel 3MOS Sensors
- Multi format for HDTV/SDTV (Switchable)
- 1080i/59.94, 1080i/50, 720p/59.94,720p/50 , 480i/59.94, 576i/50 (all 16:9), 480i/59.94 (4:3) & 576i/50 (4:3)
- Horizontal Image Flip Mode, Negative Video Mode & 6 Color Masking
- Camera control RS-232C/RS-422 (Remote Controller RC-Z3 is available.)

KP-HD20-S2 is a Mini Single Chip HDTV C-Mount Camera with

- 1/3" type 2.1Mega-Pixel RGB Beyer MOS Sensor
- HDTV compatible 1080i/59.94 or 1080i/50 (as 1080p/25 also available)
- High sensitivity (Minimum illumination: Color 0.2lx, F1.2/ AGC42dB)
- Analog CVBS (NTSC/PAL) can be output simultaneously from the camera
- Switchable analog display mode 4:3 or 16:9.
- Coaxial cable transmission (100m, 5C-2V 75ohm) or 300m with optional multiunit MU-HD101
- Power over coaxial cable with optional multiunit MH-HD101
- Compact size (44 x 44 x 59mm)

All Camera's built for special customers applications. It is ideal for graphics ,stand point of view, remote observation, remote studios, helmet camera, IPTV and all kind of sports applications.



# 4-1 News of Hitachi Kokusai Electric

July 2013	New supply contract from Gearhouse UK for 60 x SK-HD1200 Fiber Chains
July 2013	New supply contract from Gearhouse UK for 4 x SK-HD1500 Slow Motion
August 2013	Awarded from Malta TV to supply 18 x SK-HD1000 Fiber Chains
September 2013	Release of Z-HD6000 Production Camera with 2.6 Mpixel MOS Sensors
October 2013	Establishing of Hitachi Kokusai Turkey (HKT)
November 2013	Delivery of 2 x SK-HD1500 Slow Motion Chains to Mizmor Production Israel
November 2013	Delivery of 1 x SK-HD1500 Slow Motion Chain to VPK Production Slovenia
December 2013	Installation of 4 sets KP-HD20AP-S2 with Multiunit Tampere Ice Hockey
January 2014	Delivery of 6 x Z-HD6000 Fiber Chains to Satcom Germany (OB Van)
January 2014	HKT start with a Turkish partner OB Van, SNG & Up-Link car production
January 2014	HKT start sales & marketing inside Turkey for digital FPU's
February 2014	BBC UK approved KP-HD20A-S2 for sports application (Cricket).
March 2014	Delivery of 3 x Z-HD6000 Fiber Chains to SKY Greece
April 2014	Promotion start inside EU of OB Van, SNG & Up-Link car produced by HKT
May 2014	Delivery and installation of 6 x DK-H100 for Dresden Police Department

News up-coming soon

Live stream from football world cup in Brazil with Super High Vision Cameras (8K) joint development from NHK (National Broadcaster Japan) and Hitachi Kokusai. Plan is to use this new technology at Olympic Games 2020 in Tokyo.

Market evaluation for 4K camera needs inside EU.

IBC Amsterdam (12.09. – 16.09.) release of new MOS Studio Camera Series.

# 5-1 Main Customer Base inside EU

County	Customer	Application	Camera Type	Quantity
Finland	YLE	Remote Studio	DK-Z50	26
	Media Gear	Sport	KP-HD20A-S2	56
	Tampere City	Ice Hockey	KP-HD20A-S2	4
Sweden	STV	Sport	HV-HD33	8
Denmark	Streamline MediaStudio		Z-HD5000	4
Latvia	Parlament	Remote Studio	DK-Z50	4
Poland	Warszawa Court	Remote Studio	DK-Z50	2
Germany	Broadcast Solution	OB Van	DK-H100/Z-HD5000	3 / 20
	Satcom	OB Van	Z-HD5000/Z-HD6000/SK-HD1000	6 / 6 / 18
	MCI	Sport	KP-HD20A-S2	6
	MWA	Film Scanning	DK-H32/HV-HD33	12 / 50
	HR	Remote Studio	DK-H100	2
	Police Dresden	Remote	DK-H100	6
Netherland	EU Court Den Haag	Remote Studio	DK-Z50	10
	National Theater	Remote	HV-HD33	8
Belgium	Lines Broadcast	Studio	Z-HD5000	3
France	French Parlament	Remote Studio	DK-H100	8
Spain	Canal Sur	Studio	SK-HD1000/SK-HD1200	6 / 60
	TVE	Studio	Z-HD5000	16
Italy	RAI	Studio	SK-HD1000	150
	RAI	Studio	SK-HD1000 Wireless	8
	Mediaset	Studio	Z-HD5000/SK-HD1000	12 / 4
Malta	Maltese TV	Studio	SK-HD1000	36
Greece	ERT	Studio	SK-HD1200	15
	MTV	Studio	SK-HD1000	4
	Nova	Studio	Z-HD5000	7
	Sky	Studio	Z-HD6000	3
Slovenia	VPK	OB Van	Z-HD5000/SK-HD1000/SK-HD1500	6 / 8 / 2
Austria	WA Invention	Studio	Z-HD5000	4
Swiss	Tele Zurich	Studio	SK-HD1000	4
UK & Eire	Gearhouse	OB Van	DK-H100/SK-HD1200/SK-HD1500	3 / 90 / 7
	Megahertz	OB Van	DK-H100/SK-HD1000	3 / 6
	TNP	Studio	Z-HD5000	6
	Camera Corp	Sport	HV-HD33/DK-H32/DK-H100	60 / 50 / 25
	BBC	Sport	KP-HD20A-S2	20