

Registrar map of HV-F22GV

(Firmware version: IP Engine V2.03, Camera head V3.10)

June 27, 2008 Version 1.09 Hitachi Kokusai Electric Inc.

	Feature name	NameSpace	Level	Access	Address	Interface	Visibility	Min	Max	Initial	Save	Note
DeviceInformation												
1	DeviceVendorName	Standard	R	RO	0x0048	String	Beginner	-	-	-		
2	DeviceModelName	Standard	R	RO	0x0068	String	Beginner	-	-	-		
3	DeviceManufactureInfo	Standard	R	RO	0x00A8	String	Beginner	-	-	-		
4	DeviceVersion	Standard	R	RO	0x0088	String	Beginner	-	-	-		
5	DeviceID	Standard	R	RO	0x00D8	String	Expert	-	-	-		
6	DeviceUserID	Standard	O	RW	0x00E8	String	Beginner	-	-	-	OK	
7	DeviceScanType	Standard	R	RO	0xD32C	Enumeration	Expert	-	-	0		0: Areascan
8	SensorWidth	Standard	R	RO	0xA020	Integer	Expert	-	-	1360		
9	SensorHeight	Standard	R	RO	0xA024	Integer	Expert	-	-	1024		
10	WidthMax	Standard	R	RO	-	Integer	Expert	-	-	1360		
11	HeightMax	Standard	R	RO	-	Integer	Expert	-	-	1024		
12	Width	Standard	M	RW	0xD300	Integer	Beginner	320	dynamic	1360	OK	Inc = 8, Max = "WidthMax" - ("OffsetX"-300)
13	Height	Standard	M	RW	0xD304	Integer	Beginner	240	dynamic	1024	OK	Inc = 1, Max = "HeightMax" - ("OffsetY"-17)
14	OffsetX	Standard	R	RW	0xD31C	Integer	Beginner	300	dynamic	300	OK	Inc = 2, Max = "WidthMax" - "Width" + 300
15	OffsetY	Standard	R	RW	0xD320	Integer	Beginner	17	dynamic	17	OK	Inc = 2, Max = "HeightMax" - "Height" + 17
16	PixelCoding	Standard	R	RO	-	Enumeration	Expert	-	-	RGBPacked		3: RGBPacked
17	PixelSize	Standard	R	RO	-	Enumeration	Expert	-	-	Bpp24		5: Bpp24
18	PixelColorFilter	Standard	R	RO	-	Enumeration	Expert	-	-	None		0: None
19	PixelFormat	Standard	M	RW	0xD308	Enumeration	Beginner	-	-	RGB8Packed		0x2180014:RGB8Packed
20	TestImageSelector	Standard	O	RW	0xD33C	Enumeration	Beginner	-	-	Off		0: Off 9:ColorBar 0x80000000:IPEngineTestPatern
AcquisitionAndTriggerControls												
21	AcquisitionMode	Standard	M	RW	0xD310	Enumeration	Beginner	-	-	Continuous	OK	1: Continuous 2: MultiFrame 3: SingleFrame
22	AcquisitionStart	Standard	M	WO	0xD314	Command	Beginner	-	-	-		Command: 1
23	AcquisitionStop	Standard	M	WO	0xD318	Command	Beginner	-	-	-		Command: 1
24	AcquisitionFrameCount	Standard	R	RW	0xD334	Integer	Beginner	1	255	1	OK	use when AcquisitionMode is MultiFrame
25	TriggerMode	Standard	R	RW	0xE830	Enumeration	Beginner	-	-	Off	OK	0: Off 1: On
26	TriggerActivation	Standard	R	RW	0xE83C	Enumeration	Beginner	-	-	RisingEdge	OK	0: FallingEdge 1: RisingEdge
27	TriggerDelayAbs	Standard	R	RW	0xE844	Float	Expert	5	150000	5	OK	unit: us (4.03us step)
28	TriggerDelayRaw	Standard	R	RW	0xE848	Integer	Expert	0	37241	0	OK	
29	ExposureMode	Standard	R	RW	0xE854	Enumeration	Beginner	-	-	Off	OK	0: Off 1: Timed 2: TriggerWidth
30	ExposureTimeAbs	Standard	R	RW	0xE858	Float	Beginner	15 26	4000000 100000	66666.7 66665.6	OK	Then TriggerMode=Off Then TriggerMode=On
31	ExposureTimeRaw	Standard	O	RW	0xE85C	Integer	Beginner	69 1	963 24821	128 16546	OK	then TriggerMode=Off (69: 4s ~ (128: 1/15s) ~ 963:15us) then TriggerMode=On (1:26us ~ 24821:100000us)
32	ExposureAuto	Standard	O	RW	0xE860	Enumeration	Beginner	-	-	Off	OK	0:Off 1:Continuous
AnalogControls												
33	GainRaw [related GainSelector]	Standard	O	RW	0xE87C	Integer	Beginner	0	192	0	OK	0.0625dB step
34	GainAbs [related to GainSelector]	Standard	O	RW	0xE880	Float	Beginner	-	-	0	OK	unit: dB 0.1 step
35	GainAuto [related to GainSelector]	Standard	O	RW	0xE884	Enumeration	Beginner	-	-	Off	OK	0: Off 2: Continuous
36	BlackLevelSelector	Standard	O	RW	0xE88C	Enumeration	Expert	-	-	All		0: All 1: Red 3: Blue
37	BlackLevelRaw [related to BlackLevelSelector]	Standard	O	RW	0xE890	Integer	Expert	0	255	128	OK	
38	BalanceWhiteAuto	Standard	O	RW	0xE8B4	Enumeration	Expert	-	-	Off	OK	0: Off 1: Once 2: Continuous
39	BalanceRatioSelector	Standard	O	RW	0xE8AC	Enumeration	Expert	-	-	Red	OK	1: Red 3: Blue
40	BalanceRatioAbs	Standard	O	RW	0xE8B0	Float	Expert	0.36	2.8	1	OK	
GigEVisionTransportLayer												
41	PayloadSize	Standard	M	RO	0xD30C	Integer	Expert	-	-	4177920		
42	GevVersionMajor	Standard	R	RO	0x0000	Integer	Beginner	-	-	1		use 31-16 bit
43	GevVersionMinor	Standard	R	RO	0x0000	Integer	Beginner	-	-	0		use 15-0 bit
44	GevDeviceModeIsBigEndian	Standard	O	RO	0x0004	Boolean	Beginner	-	-	True		use 0 bit
45	GevDeviceModeCharacterSet	Standard	O	RO	0x0004	Enumeration	Beginner	-	-	UTF8		use 31-24 bit
46	GevInterfaceSelector	Standard			-		Beginner	0	0	0		
47	GevMACAddress	Standard	O	RO	0x0008 0x000C	Integer	Beginner	-	-	-		High address Low address

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48	GevSupportedIPConfigurationLLA	Standard	O	RO	0x0010	Boolean	Expert	-	-	True		use 29 bit
49	GevSupportedIPConfigurationDHCP	Standard	O	RO	0x0010	Boolean	Expert	-	-	True		use 30 bit
50	GevSupportedIPConfigurationPersistentIP	Standard	O	RO	0x0010	Boolean	Expert	-	-	True		use 31 bit
51	GevCurrentIPConfigurationLLA	Standard	O	RW	0x0014	Boolean	Beginner			True		use 29 bit
52	GevCurrentIPConfigurationDHCP	Standard	O	RW	0x0014	Boolean	Beginner			True	OK	use 30 bit
53	GevCurrentIPConfigurationPersistentIP	Standard	O	RW	0x0014	Boolean	Beginner			False	OK	use 31 bit
54	GevCurrentIPAddress	Standard	O	RO	0x0024	Integer	Beginner	-	-	-		
55	GevCurrentSubnetMask	Standard	O	RO	0x0034	Integer	Beginner	-	-	-		
56	GevCurrentDefaultGateway	Standard	O	RO	0x0044	Integer	Beginner	-	-	-		
57	GevFirstURL	Standard	O	RO	0x0200	String	Beginner	-	-	-		
58	GevSecondURL	Standard	O	RO	0x0400	String	Beginner	-	-	-		
59	GevNumberOfInterfaces	Standard	O	RO	0x0600	Integer	Beginner	-	-	1		
60	GevPersistentIPAddress	Standard	O	RW	0x064C	Integer	Beginner			0	OK	
61	GevPersistentSubnetMask	Standard	O	RW	0x065C	Integer	Beginner			0	OK	
62	GevPersistentDefaultGateway	Standard	O	RW	0x066C	Integer	Beginner			0	OK	
63	GevMessageChannelCount	Standard	O	RO	0x0900	Integer	Beginner	-	-	1		0 or 1
64	GevStreamChannelCount	Standard	O	RO	0x0904	Integer	Beginner	-	-	1		1 to 512
65	GevSupportedOptionalCommandsUserDefinedName	Standard	O	RO	0x0934	Boolean	Beginner	-	-	True		use 0 bit
66	GevSupportedOptionalCommandsSerialNumber	Standard	O	RO	0x0934	Boolean	Beginner	-	-	True		use 1 bit
67	GevSupportedOptionalCommandsEVENTDATA	Standard	O	RO	0x0934	Boolean	Beginner	-	-	True		use 27 bit
68	GevSupportedOptionalCommandsEVENT	Standard	O	RO	0x0934	Boolean	Beginner	-	-	True		use 28 bit
69	GevSupportedOptionalCommandsPACKETRESEND	Standard	O	RO	0x0934	Boolean	Beginner	-	-	True		use 29 bit
70	GevSupportedOptionalCommandsWRITEMEM	Standard	O	RO	0x0934	Boolean	Beginner	-	-	True		use 30 bit
71	GevSupportedOptionalCommandsConcatenation	Standard	O	RO	0x0934	Boolean	Beginner	-	-	True		use 31 bit
72	GevHeartbeatTimeout	Standard	O	RW	0x0938	Integer	Beginner			3000	OK	unit: ms
73	GevTimestampTickFrequency	Standard	O	RO	0x093C 0x0940	Integer	Beginner	-	-	-		High address Low address
74	GevTimestampControlLatch	Standard	O	WO	-	Command	Beginner	-	-	-		command: 2
75	GevTimestampControlReset	Standard	O	WO	-	Command	Beginner	-	-	-		command: 1
76	GevTimestampValue	Standard	O	RO	0x0948 0x094C	Integer	Beginner	-	-	-		High address Low address
77	GevCCP	Standard	O	RW	0x0A00	Enumeration	Beginner	-	-	0		0: Non 1: Exclusive 2: Control
78	GevMCDA	Standard	O	RW	0x0B10	Integer	Beginner			0		
79	GevMCTT	Standard	O	RW	0x0B14	Integer	Beginner			0		
80	GevMCRC	Standard	O	RW	0x0B18	Integer	Beginner			0		
81	GevStreamChannelSelector	Standard	O	RW	-	Integer	Beginner			0		
82	GevSCPInterfaceIndex	Standard	R	RW	0x0D00	Integer	Beginner			0		
83	GevSCPHostPort	Standard	O	RW	0x0D00	Integer	Beginner					
84	GevSCPSFireTestPacket	Standard	O	RW	0x0D04	Boolean	Beginner			False	OK	use 0 bit
85	GevSCPSDoNotFragment	Standard	O	RW	0x0D04	Boolean	Beginner			True	OK	use 1 bit
86	GevSCPSBigEndian	Standard	O	RW	0x0D04	Boolean	Beginner			False	OK	use 2 bit
87	GevSCPSPacketSize	Standard	R	RW	0x0D04	Integer	Beginner			8164	OK	use 31-16 bit
88	GevSCPD	Standard	R	RW	0x0D08	Integer	Beginner			0		
89	GevSCDA	Standard	O	RW	0x0D18	Integer	Beginner					IP address of connected PC
90	GevIPConfigurationStatus	Standard	O	RO	0xA030	Enumeration	Beginner					
UserSets												
91	UserSetSelector	Standard	R	RW	0xD1AC	Enumeration	Beginner	-	-	0		0: Default :UserSet1
92	UserSetLoad [related to UserSelector]	Standard	R	WO	0xD1B0	Command	Beginner	-	-	-		Command: 1 Load items written "OK" in column "Save"
93	UserSetSave [related to UserSelector]	Standard	R	WO	0xD1B4	Command	Beginner	-	-	-		Command: 1 Save items written "OK" in column "Save"
94	UserSetDefaultSelector	Standard	O	RW	0xD1B8	Enumeration	Beginner	-	-	0	OK	0: Default 1:UserSet1
CameraControl												
95	BalanceRatioRaw [related to BalanceRatioSelector]	Custom	-	RW	0xE8CC	Integer	Expert	0	255	128	OK	
96	SharpnessRaw	Custom	-	RW	0xE8D0	Integer	Beginner	0	255	128	OK	
97	SharpnessFrequency	Custom	-	RW	0xE8D4	Enumeration	Expert	-	-	Middle	OK	0: Low 1: Middle 2: High
98	SharpnessLevelDependentRaw	Custom	-	RW	0xE8D8	Integer	Expert	0	255	15	OK	

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99	SharpnessCrispRaw	Custom	-	RW	0xE8DC	Integer	Expert	0	255	18	OK	
100	SharpnessBalanceHVRaw	Custom	-	RW	0xE8E0	Integer	Expert	0	255	178	OK	
101	SharpnessColorDetailMode	Custom	-	RW	0xE8E4	Enumeration	Expert	-	-	Off	OK	0: Off 1: Ch1 2: Ch2 3: Ch1+Ch2
102	SharpnessColorDetailSelector	Custom	-	RW	0xE8E8	Enumeration	Expert	-	-	CH1		0: Ch1 1: Ch2
103	SharpnessColorDetailHue	Custom	-	RW	0xE8EC	Enumeration	Expert	-	-	Yellow.Red	OK	0: R-Mg 1: Mg-B 2: B-Cy 3: Cy-G 4: G-Ye 5: Ye-R
104	SharpnessColorDetailHueFineRaw	Custom	-	RW	0xE8F0	Integer	Expert	0	255	128	OK	
105	SharpnessColorDetailWidthRaw	Custom	-	RW	0xE8F4	Integer	Expert	0	255	128	OK	
106	SharpnessColorDetailLevelRaw	Custom	-	RW	0xE8F8	Integer	Expert	0	255	0	OK	
107	SharpnessColorDetailHueAuto	Custom	-	WO	0xE8FC	Command	Expert	-	-	-		Command: 1
108	GammaMode	Custom	-	RW	0xE900	Enumeration	Beginner	-	-	1	OK	0: Off 1: On
109	GammaSelector	Custom	-	RW	0xE904	Enumeration	Expert	-	-	All		0: ALL 1: Red 2: Blue
110	GammaRaw	Custom	-	RW	0xE908	Integer	Beginner	0	255	128	OK	
111	MaskingMode	Custom	-	RW	0xE90C	Enumeration	Expert	-	-	On	OK	0: Off 1: On
112	MaskingSelector	Custom	-	RW	0xE910	Enumeration	Expert	-	-	All		0: ALL 1: Red 2: Green 3: Blue 4: Yellow 5: Cyan 6: Magenta
113	SaturationRaw [related to MaskingSelector]	Custom	-	RW	0xE914	Integer	Expert	0	255	128	OK	
114	HueRaw [related to MaskingSelector]	Custom	-	RW	0xE918	Integer	Expert	0	255	128	OK	
115	ALCAAdjustRaw	Custom	-	RW	0xE91C	Integer	Beginner	0	255	128	OK	
116	AlcPeakAveRatio	Custom	-	RW	0xE920	Enumeration	Expert	-	-	Average85	OK	0: Average50 1: Average75 2: Average85 3: Average100
117	AlcSpeed	Custom	-	RW	0xE924	Enumeration	Beginner	-	-	Standard	OK	0: Slow 1: Standard 2: Fast
118	AlcGateMode	Custom	-	RW	0xE928	Enumeration	Expert	-	-	Off	OK	0: Off 1: On
119	AlcGateLineSelector	Custom	-	RW	0xE92C	Enumeration	Expert	-	-	Line1	OK	0: Line1 1: Line2 2: Line3 3: Line4 4: Line5 5: Line6 6: Line7 7: Line8
120	AlcGateLine	Custom	-	RW	0xE930	Integer	Expert	0	0xFF	0xFF	OK	Bit Pattern
121	AutoShadingMode	Custom	-	RW	0xE934	Enumeration	Expert	-	-	Flat	OK	0: Off, 1: Luminance 2: Color 3: Flat
122	AutoShadingStart	Custom	-	WO	0xE938	Command	Expert	-	-	-		
123	WhiteGateMode	Custom	-	RW	0xE93C	Enumeration	Expert	-	-	Off	OK	0: Off, 1: On
124	WhiteGateIndicator	Custom	-	RW	0xE940	Enumeration	Expert	-	-	Off		0: Off, 1: On
125	WhiteGatePosX	Custom	-	RW	0xE944	Integer	Expert	47	209	128	OK	
126	WhiteGatePosY	Custom	-	RW	0xE948	Integer	Expert	68	188	128	OK	
127	DigitalNoiseReductionMode	Custom	-	RW	0xE94C	Enumeration	Expert	-	-	Off	OK	0: Off 1: Mode1 2: Mode2
128	NegaImageMode	Custom	-	RW	0xE950	Enumeration	-	-	-	Off	OK	0: Off 1: On
129	PixelConcealmentMode	Custom	-	RW	0xE954	Enumeration	Expert	-	-	On	OK	0: Off 1: On
130	ExternalInputTerminatorMode	Custom	-	RW	0xE958	Enumeration	Expert	-	-	On	OK	0: Off 1: On
131	ExternalHdInputPhaseRaw	Custom	-	RW	0xE95C	Integer	Expert	0	255	128	OK	
132	FocusGateIndicator	Custom	-	RW	0xE960	Enumeration	Expert	-	-	On		0: Off 1: On
133	FocusGatePosX	Custom	-	RW	0xE964	Integer	Expert	47	209	128	OK	
134	FocusGatePosY	Custom	-	RW	0xE968	Integer	Expert	68	188	128	OK	
135	FocusGateWidth	Custom	-	RW	0xE96C	Integer	Expert	0	20	0	OK	
136	FocusGateHeight	Custom	-	RW	0xE970	Integer	Expert	0	15	0	OK	
137	FocusDetection	Custom	-	RO	0xE974	Integer	Expert	-	-	-		
138	FlatShadDataSelector	Custom	-	RW	0xE978	Enumeration	Guru	-	-	Red		1: Red 2: Green 3: Blue
139	FlatShadDataPosX	Custom	-	RW	0xE97C	Integer	Guru	0	23	0		
140	FlatShadDataPosY	Custom	-	RW	0xE980	Integer	Guru	0	33	0		
141	FlatShadDataPosRaw	Custom	-	RW	0xE984	Integer	Guru	0x0000	0xFFFF	0x8000		
142	FlatShadDataPosAbs	Custom	-	RW	0xE988	Float	Guru	0	2	1		
143	AutoSetupType	Custom	-	RO	0xE98C	Enumeration	Expert	-	-	-		
144	AutoSetupProgress	Custom	-	RO	0xE990	Integer	Expert	-	-	-		
145	AutoSetupResult	Custom	-	RO	0xE994	Enumeration	Expert	-	-	-		
146	CameraHeadFirmwareVersionMajor	Custom	-	RO	0xE998	Integer	Guru	-	-	-		
147	CameraHeadFirmwareVersionMinor	Custom	-	RO	0xE99C	Integer	Guru	-	-	-		
148	CameraHeadFirmwareVersionSubminor	Custom	-	RO	0xE9A0	Integer	Guru	-	-	-		