

# Overview of generic camera interfaces on Domino

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Camera	CamConfig	Expose/Readout	Scanning	D <sup>3</sup> HVID	Horizontal Sync Mode	Vertical Sync Mode	Required Downstream signals	Required Upstream signals	Max Concurrent Cameras							Description		
GrabberExposeAR	PxxRA	WIDTH / INTCTL	PROGRESSIVE	11	ANALOG	ANALOG	V1+CS	Reset	1	2	1	1	2	1	-	Asynchronous reset, grabber controlled exposure		
	PxxRA_D			13		DIGITAL	V1+HS, Vsync	Reset	1	2	1	1	2	1	-			
	PxxRA_M		-	DIGITAL	-	MASTER	V1+HS	Reset	-	-	-	1	2	1	-			
	PxxRD		33		DIGITAL	Hsync, Vsync	Reset	1	2	1	-	-	-	-				
	PxxRM_A	WIDTH / PLSTRG	PROGRESSIVE	41	ANALOG	ANALOG	V1+CS	Reset, Hdrive	1	2	1	1	2	1	2			
	PxxRM_D			43		DIGITAL	V1+HS, Vsync	Reset, Hdrive	1	2	1	-	-	-	-			
	PxxRM_1			53	MASTER	-	MASTER	None	Reset**, Hdrive	-	-	-	1	2	1		2	
				PxxRM_2		-	MASTER	None	Reset, AuxReset***, Hdrive	-	-	-	1	2	1		2	
CameraExposeAR	PxxRA	PLSTRG/ INTCTL		PROGRESSIVE	11	ANALOG	ANALOG	V1+CS	Reset	1	2	1	1	2	1	-	Asynchronous reset, camera controlled exposure	
	PxxRA_D				13		DIGITAL	V1+HS, Vsync	Reset	1	2	1	1	2	1	-		
	PxxRD		33	DIGITAL	-	DIGITAL	Hsync, Vsync	Reset	1	2	1	-	-	-	-			
	PxxRM_A		41		ANALOG	V1+CS	Reset, Hdrive	1	2	1	1	2	1	2				
			PxxRM_D		43	MASTER	DIGITAL	V1+HS, Vsync	Reset, Hdrive	1	2	1	-	-	-	-		
	53	MASTER	Vsync	Reset, Hdrive	1	2	1	1	2	1	2							
InterlaceRR	IxxSM_R	INTPRM/ PLSTRG	INTERLACE	-	MASTER	MASTER	None	Hdrive, Vdrive	-	-	-	1	2	1	2	Restart Reset		
InterlaceFR	IxxSA	INTCTL/ INTCTL or INTPRM/ INTCTL	INTERLACE	11	ANALOG	ANALOG	V1+CS	None	1	2	1	1	2	1	-	Interlace scan free-run		
	IxxSA_D			13		DIGITAL	V1+HS, Vsync	None	1	2	1	-	-	-	-			
	IxxSD			22	DIGITAL	33	DIGITAL	Csync	None	1	2	1	-	-	-		-	
				44		DIGITAL	Hsync, Vsync	None	1	2	1	-	-	-	-			
	IxxSM			45	MASTER	44	MASTER	MASTER	V1+CS	Hdrive, Vdrive	1	2	1	-	-		-	-
				55		MASTER		V1+HS	Hdrive, Vdrive	1	2	1	-	-	-		-	
						None	Hdrive, Vdrive	1	2	1	1	2	1	2				
ProgressiveFR	PxxSA	INTCTL/ INTCTL or INTPRM/ INTCTL	PROGRESSIVE	11	ANALOG	ANALOG	V1+CS	None	1	2	1	1	2	1	-	Progressive scan free-run		
	PxxSA_D			13		DIGITAL	V1+HS, Vsync	None	1	2	1	-	-	-	-			
	PxxSD			22	DIGITAL	33	DIGITAL	Csync	None	1	2	1	-	-	-		-	
				44		DIGITAL	Hsync, Vsync	None	1	2	1	-	-	-	-			
				45		DIGITAL	PixelClk, Hsync, Vsync	None	-	-	-	1	2	1	-			
	PxxSM			44	MASTER	44	MASTER	MASTER	V1+CS	Hdrive, Vdrive	1	2	1	-	-		-	-
				55		MASTER		V1+HS	Hdrive, Vdrive	1	2	1	-	-	-		-	
						None	Hdrive, Vdrive	1	2	1	1	2	1	2				
D <sup>3</sup> HVID = Horizontal/Vertical synchronisation Identification number: a proprietary way to designate unambiguously the synchronization schemes				Reset**: H-synchronized Reset signal.				-	This generic interface is not available									
				AuxReset***: H-synchronized AuxReset signal.				n	n (n = 1,2 or 3) cameras with this generic camera interface can operate concurrently on									