Infinite-ISP REGISTER MAP
Master Base Address: A005_0000, Master High Address: A005_FFFF

Module Name	Address Register (16-bits)					Absolute Register Index		Data Register (32-bits) 1 section = 4 Bytes 2 sections = 2 Bytes each 4 sections = 1 Byte each	Absolute Register Address		Register Count
	Mode (0 - 3)	Module ID (0 - 31)	Block ID (0 - 7)		Register ID (0 - 15)						
CONFIG	0	0	0		0	0		RESET	0000		1
	0	0	0		1	1		SNS_WIDTH	0004		1
	0	0	0		2	2		SNS_HEIGHT	0008		1
	0	0	0		3	3		TARGET_CROP_WIDTH	000C		1
	0	0	0		4	4		TARGET_CROP_HEIGHT	0010		1
	0	0	0		5	5		BITS	0014		1
	0	0	0		6	6		BAYER	0018		1
	0	0	0	7	15	7	15	Reserved	001C	003C	9
CONFIG	0	0	1		0	16		TOP_EN*	0040		1
	0	0	1		1	17		INT_STATUS	0044		1
	0	0	1		2	18		INT_MASK	0048		1
	0	0	1	7	3	15	19	127	Reserved	004C	01FC	109
DPC	0	1	0		0	128		DPC_THRESHOLD	0200		1
	0	1	0	7	1	15	129	255	Reserved	0204	03FC	127
BLC	0	2	0		0	256		BLC_R	0400		1
	0	2	0		1	257		BLC_GR	0404		1
	0	2	0		2	258		BLC_GB	0408		1
	0	2	0		3	259		BLC_B	040C		1
	0	2	0		4	260		LINEAR_R	0410		1
	0	2	0		5	261		LINEAR_GR	0414		1
	0	2	0		6	262		LINEAR_GB	0418		1
	0	2	0		7	263		LINEAR_B	041C		1
	0	2	0	7	8	15	264	383	Reserved	0420	05FC	120
AE	0	3	0		0	384		center_illuminance	0600		1
	0	3	0		1	385		skewness	0604		1
	0	3	0		2	386		ae_crop_left	0608		1
	0	3	0		3	387		ae_crop_right	060C		1
	0	3	0		4	388		ae_crop_top	0610		1
	0	3	0		5	389		ae_crop_bottom	0614		1
	0	3	0		6	390		ae_response	0618		1
	0	3	0		7	391		ae_result_skewness	061C		1
	0	3	0		8	392		ae_response_debug	0620		1
	0	3	0		9	393		ae_done	0624		1
	0	3	0	7	10	15	394	511	Reserved	0628	07FC	118
DGAIN	0	4	0		0	512		dgain_isManual	0800		1
	0	4	0		1	513		dgain_man_index	0804		1
	0	4	0		2	514		dgain_index_out	0808		1
	0	4	0	3	15	515	527	Reserved	080C	083C	13
	0	4	1		0	528		dgain_array_0	0840		1
	0	4	1		1	529		dgain_array_1	0844		1
	0	4	1		2	530		dgain_array_2	0848		1
	0	4	1		3	531		dgain_array_3	084C		1
	0	4	1		4	532		dgain_array_4	0850		1
	0	4	1		5	533		dgain_array_5	0854		1
	0	4	1		6	534		dgain_array_6	0858		1
	0	4	1		7	535		dgain_array_7	085C		1
	0	4	1		8	536		dgain_array_8	0860		1
	0	4	1		9	537		dgain_array_9	0864		1
	0	4	1		10	538		dgain_array_10	0868		1
	0	4	1		11	539		dgain_array_11	086C		1
	0	4	1		12	540		dgain_array_12	0870		1
	0	4	1		13	541		dgain_array_13	0874		1
	0	4	1		14	542		dgain_array_14	0878		1
	0	4	1		15	543		dgain_array_15	087C		1
	0	4	2		0	544		dgain_array_16	0880		1
	0	4	2		1	545		dgain_array_17	0884		1
	0	4	2		2	546		dgain_array_18	0888		1
	0	4	2		3	547		dgain_array_19	088C		1
	0	4	2		4	548		dgain_array_20	0890		1
	0	4	2		5	549		dgain_array_21	0894		1
	0	4	2		6	550		dgain_array_22	0898		1
	0	4	2		7	551		dgain_array_23	089C		1
	0	4	2		8	552		dgain_array_24	08A0		1
	0	4	2		9	553		dgain_array_25	08A4		1
	0	4	2		10	554		dgain_array_26	08A8		1
	0	4	2		11	555		dgain_array_27	08AC		1
	0	4	2		12	556		dgain_array_28	08B0		1
	0	4	2		13	557		dgain_array_29	08B4		1
	0	4	2		14	558		dgain_array_30	08B8		1
	0	4	2		15	559		dgain_array_31	08BC		1
	0	4	3		0	560		dgain_array_32	08C0		1
	0	4	3		1	561		dgain_array_33	08C4		1
	0	4	3		2	562		dgain_array_34	08C8		1
	0	4	3		3	563		dgain_array_35	08CC		1
	0	4	3		4	564		dgain_array_36	08D0		1
	0	4	3		5	565		dgain_array_37	08D4		1
	0	4	3		6	566		dgain_array_38	08D8		1
	0	4	3		7	567		dgain_array_39	08DC		1
	0	4	3		8	568		dgain_array_40	08E0		1
	0	4	3		9	569		dgain_array_41	08E4		1
	0	4	3		10	570		dgain_array_42	08E8		1
	0	4	3		11	571		dgain_array_43	08EC		1
	0	4	3		12	572		dgain_array_44	08F0		1
	0	4	3		13	573		dgain_array_45	08F4		1
	0	4	3		14	574		dgain_array_46	08F8		1
	0	4	3		15	575		dgain_array_47	08FC		1
	0	4	4		0	576		dgain_array_48	0900		1
	0	4	4		1	577		dgain_array_49	0904		1
	0	4	4		2	578		dgain_array_50	0908		1
	0	4	4		3	579		dgain_array_51	090C		1
	0	4	4		4	580		dgain_array_52	0910		1
	0	4	4		5	581		dgain_array_53	0914		1
	0	4	4		6	582		dgain_array_54	0918		1
	0	4	4		7	583		dgain_array_55	091C		1
	0	4	4		8	584		dgain_array_56	0920		1
	0	4	4		9	585		dgain_array_57	0924		1
	0	4	4		10	586		dgain_array_58	0928		1
	0	4	4		11	587		dgain_array_59	092C		1
	0	4	4		12	588		dgain_array_60	0930		1
	0	4	4		13	589		dgain_array_61	0934		1

Infinite-ISP REGISTER MAP

Master Base Address: A005_0000, Master High Address: A005_FFFF

Module Name	Address Register (16-bits)				Absolute Register Index		Data Register (32-bits) 1 section = 4 Bytes 2 sections = 2 Bytes each 4 sections = 1 Byte each	Absolute Register Address		Register Count
	Mode (0 - 3)	Module ID (0 - 31)	Block ID (0 - 7)	Register ID (0 - 15)						
	0	4	4	14	590		dgain_array_62	0938		1
	0	4	4	15	591		dgain_array_63	093C		1
	0	4	5	0	592		dgain_array_64	0940		1
	0	4	5	1	593		dgain_array_65	0944		1
	0	4	5	2	594		dgain_array_66	0948		1
	0	4	5	3	595		dgain_array_67	094C		1
	0	4	5	4	596		dgain_array_68	0950		1
	0	4	5	5	597		dgain_array_69	0954		1
	0	4	5	6	598		dgain_array_70	0958		1
	0	4	5	7	599		dgain_array_71	095C		1
	0	4	5	8	600		dgain_array_72	0960		1
	0	4	5	9	601		dgain_array_73	0964		1
	0	4	5	10	602		dgain_array_74	0968		1
	0	4	5	11	603		dgain_array_75	096C		1
	0	4	5	12	604		dgain_array_76	0970		1
	0	4	5	13	605		dgain_array_77	0974		1
	0	4	5	14	606		dgain_array_78	0978		1
	0	4	5	15	607		dgain_array_79	097C		1
	0	4	6	0	608		dgain_array_80	0980		1
	0	4	6	1	609		dgain_array_81	0984		1
	0	4	6	2	610		dgain_array_82	0988		1
	0	4	6	3	611		dgain_array_83	098C		1
	0	4	6	4	612		dgain_array_84	0990		1
	0	4	6	5	613		dgain_array_85	0994		1
	0	4	6	6	614		dgain_array_86	0998		1
	0	4	6	7	615		dgain_array_87	099C		1
	0	4	6	8	616		dgain_array_88	09A0		1
	0	4	6	9	617		dgain_array_89	09A4		1
	0	4	6	10	618		dgain_array_90	09A8		1
	0	4	6	11	619		dgain_array_91	09AC		1
	0	4	6	12	620		dgain_array_92	09B0		1
	0	4	6	13	621		dgain_array_93	09B4		1
	0	4	6	14	622		dgain_array_94	09B8		1
	0	4	6	15	623		dgain_array_95	09BC		1
	0	4	7	0	624		dgain_array_96	09C0		1
	0	4	7	1	625		dgain_array_97	09C4		1
	0	4	7	2	626		dgain_array_98	09C8		1
	0	4	7	3	627		dgain_array_99	09CC		1
	0	4	7	4	15	628	639	Reserved	09D0	09FC	12
LSC	0	5	0	7	0	15	640	767	Reserved	0A00	0BFC	128
AWB	0	6	0	0	768		AWB_UNDEREXPOSED_LIMIT	0C00		1
	0	6	0	1	769		AWB_OVEREXPOSED_LIMIT	0C04		1
	0	6	0	2	770		AWB_FRAMES	0C08		1
	0	6	0	3	771		FINAL_RGAIN	0C0C		1
	0	6	0	4	772		FINAL_BGAIN	0C10		1
	0	6	0	7	7	15	775	895	Reserved	0C1C	0DFC	121
WB	0	7	0	0	896		WB_RGAIN	0E00		1
	0	7	0	1	897		WB_BGAIN	0E04		1
	0	7	0	7	2	15	898	1023	Reserved	0E08	0FFC	126
CFA	0	8	0	7	0	15	1024	1151	Reserved	1000	11FC	128
CCM	0	9	0	0	1152		ccm_rr	1200		1
	0	9	0	1	1153		ccm_rg	1204		1
	0	9	0	2	1154		ccm_rb	1208		1
	0	9	0	3	1155		ccm_gr	120C		1
	0	9	0	4	1156		ccm_gg	1210		1
	0	9	0	5	1157		ccm_gb	1214		1
	0	9	0	6	1158		ccm_br	1218		1
	0	9	0	7	1159		ccm_bg	121C		1
	0	9	0	8	1160		ccm_bb	1220		1
	0	9	0	7	9	15	1161	1279	Reserved	1224	13FC	119
CSC	0	10	0	0	1280		csc_conv_std	1400		1
	0	10	0	7	1	15	1281	1407	Reserved	1404	15FC	127
LDCI	0	11	0	7	0	15	1408	1535	Reserved	1600	17FC	128
GF	0	12	0	0	1536		gf_kernel_0	1800		1
	0	12	0	1	1537		gf_kernel_1	1804		1
	0	12	0	2	1538		gf_kernel_2	1808		1
	0	12	0	3	1539		gf_kernel_3	180C		1
	0	12	0	4	1540		gf_kernel_4	1810		1
	0	12	0	5	1541		gf_kernel_5	1814		1
	0	12	0	6	1542		gf_kernel_6	1818		1
	0	12	0	7	1543		gf_kernel_7	181C		1
	0	12	0	8	1544		gf_kernel_8	1820		1
	0	12	0	9	1545		gf_kernel_9	1824		1
	0	12	0	10	1546		gf_kernel_10	1828		1
	0	12	0	11	1547		gf_kernel_11	182C		1
	0	12	0	12	1548		gf_kernel_12	1830		1
	0	12	0	13	1549		gf_kernel_13	1834		1
	0	12	0	14	1550		gf_kernel_14	1838		1
	0	12	0	15	1551		gf_kernel_15	183C		1
	0	12	1	0	1552		gf_kernel_16	1840		1
	0	12	1	1	1553		gf_kernel_17	1844		1
	0	12	1	2	1554		gf_kernel_18	1848		1
	0	12	1	3	1555		gf_kernel_19	184C		1
	0	12	1	4	1556		gf_kernel_20	1850		1
	0	12	1	5	1557		gf_kernel_21	1854		1
	0	12	1	6	1558		gf_kernel_22	1858		1
	0	12	1	7	1559		gf_kernel_23	185C		1
	0	12	1	8	1560		gf_kernel_24	1860		1
	0	13	0	0	1664		sharpen_strength	1A00		1
	0	13	0	1	1665		luma_kernel_0	1A04		1
	0	13	0	2	1666		luma_kernel_1	1A08		1
	0	13	0	3	1667		luma_kernel_2	1A0C		1
	0	13	0	4	1668		luma_kernel_3	1A10		1
	0	13	0	5	1669		luma_kernel_4	1A14		1
	0	13	0	6	1670		luma_kernel_5	1A18		1
	0	13	0	7	1671		luma_kernel_6	1A1C		1
	0	13	0	8	1672		luma_kernel_7	1A20		1
	0	13	0	9	1673		luma_kernel_8	1A24		1
	0	13	0	10	1674		luma_kernel_9	1A28		1
	0	13	0	11	1675		luma_kernel_10	1A2C		1

Infinite-ISP REGISTER MAP

Master Base Address: A005_0000, Master High Address: A005_FFFF

Module Name	Mode (0 - 3)	Module ID (0 - 31)	Block ID (0 - 7)	Register ID (0 - 15)	Absolute Register Index		Data Register (32-bits) 1 section = 4 Bytes / 2 sections = 2 Bytes each / 4 sections = 1 Byte each				Absolute Register Address		Register Count
Sharpen	0	13	0	12	1676		luma_kernel_11				1A30		1
	0	13	0	13	1677		luma_kernel_12				1A34		1
	0	13	0	14	1678		luma_kernel_13				1A38		1
	0	13	0	15	1679		luma_kernel_14				1A3C		1
	0	13	1	0	1680		luma_kernel_15				1A40		1
	0	13	1	1	1681		luma_kernel_16				1A44		1
	0	13	1	2	1682		luma_kernel_17				1A48		1
	0	13	1	3	1683		luma_kernel_18				1A4C		1
	0	13	1	4	1684		luma_kernel_19				1A50		1
	0	13	1	5	1685		luma_kernel_20				1A54		1
	0	13	1	6	1686		luma_kernel_21				1A58		1
	0	13	1	7	1687		luma_kernel_22				1A5C		1
	0	13	1	8	1688		luma_kernel_23				1A60		1
	0	13	1	9	1689		luma_kernel_24				1A64		1
	0	13	1	10	1690		luma_kernel_25				1A68		1
	0	13	1	11	1691		luma_kernel_26				1A6C		1
	0	13	1	12	1692		luma_kernel_27				1A70		1
	0	13	1	13	1693		luma_kernel_28				1A74		1
	0	13	1	14	1694		luma_kernel_29				1A78		1
	0	13	1	15	1695		luma_kernel_30				1A7C		1
	0	13	2	0	1696		luma_kernel_31				1A80		1
	0	13	2	1	1697		luma_kernel_32				1A84		1
	0	13	2	2	1698		luma_kernel_33				1A88		1
	0	13	2	3	1699		luma_kernel_34				1A8C		1
	0	13	2	4	1700		luma_kernel_35				1A90		1
	0	13	2	5	1701		luma_kernel_36				1A94		1
	0	13	2	6	1702		luma_kernel_37				1A98		1
	0	13	2	7	1703		luma_kernel_38				1A9C		1
	0	13	2	8	1704		luma_kernel_39				1AA0		1
	0	13	2	9	1705		luma_kernel_40				1AA4		1
	0	13	2	10	1706		luma_kernel_41				1AA8		1
	0	13	2	11	1707		luma_kernel_42				1AAC		1
	0	13	2	12	1708		luma_kernel_43				1AB0		1
	0	13	2	13	1709		luma_kernel_44				1AB4		1
	0	13	2	14	1710		luma_kernel_45				1AB8		1
	0	13	2	15	1711		luma_kernel_46				1ABC		1
	0	13	3	0	1712		luma_kernel_47				1AC0		1
	0	13	3	1	1713		luma_kernel_48				1AC4		1
	0	13	3	2	1714		luma_kernel_49				1AC8		1
	0	13	3	3	1715		luma_kernel_50				1ACC		1
	0	13	3	4	1716		luma_kernel_51				1AD0		1
	0	13	3	5	1717		luma_kernel_52				1AD4		1
	0	13	3	6	1718		luma_kernel_53				1AD8		1
	0	13	3	7	1719		luma_kernel_54				1ADC		1
	0	13	3	8	1720		luma_kernel_55				1AE0		1
	0	13	3	9	1721		luma_kernel_56				1AE4		1
	0	13	3	10	1722		luma_kernel_57				1AE8		1
	0	13	3	11	1723		luma_kernel_58				1AEC		1
	0	13	3	12	1724		luma_kernel_59				1AF0		1
	0	13	3	13	1725		luma_kernel_60				1AF4		1
	0	13	3	14	1726		luma_kernel_61				1AF8		1
	0	13	3	15	1727		luma_kernel_62				1AFC		1
	0	13	4	0	1728		luma_kernel_63				1B00		1
	0	13	4	1	1729		luma_kernel_64				1B04		1
	0	13	4	2	1730		luma_kernel_65				1B08		1
	0	13	4	3	1731		luma_kernel_66				1B0C		1
	0	13	4	4	1732		luma_kernel_67				1B10		1
	0	13	4	5	1733		luma_kernel_68				1B14		1
	0	13	4	6	1734		luma_kernel_69				1B18		1
	0	13	4	7	1735		luma_kernel_70				1B1C		1
	0	13	4	8	1736		luma_kernel_71				1B20		1
	0	13	4	9	1737		luma_kernel_72				1B24		1
	0	13	4	10	1738		luma_kernel_73				1B28		1
	0	13	4	11	1739		luma_kernel_74				1B2C		1
	0	13	4	12	1740		luma_kernel_75				1B30		1
	0	13	4	13	1741		luma_kernel_76				1B34		1
	0	13	4	14	1742		luma_kernel_77				1B38		1
	0	13	4	15	1743		luma_kernel_78				1B3C		1
	0	13	5	0	1744		luma_kernel_79				1B40		1
	0	13	5	1	1745		luma_kernel_80				1B44		1
Scale	0	14	0 7	0 15	1792	1919	Reserved				1C00	1DFC	128
YUV 444-422	0	15	0 7	0 15	1920	2047	Reserved				1E00	1FFC	128
	0	16	0	0	2048		bnr_space_kernel_r03	bnr_space_kernel_r02	bnr_space_kernel_r01	bnr_space_kernel_r00	2000		1
	0	16	0	1	2049		bnr_space_kernel_r07	bnr_space_kernel_r06	bnr_space_kernel_r05	bnr_space_kernel_r04	2004		1
	0	16	0	2	2050		Res	Res	Res	bnr_space_kernel_r08	2008		1
	0	16	0	3	2051		Res	Res	Res	Res	200C		1
	0	16	0	4	2052		bnr_space_kernel_r13	bnr_space_kernel_r12	bnr_space_kernel_r11	bnr_space_kernel_r10	2010		1
	0	16	0	5	2053		bnr_space_kernel_r17	bnr_space_kernel_r16	bnr_space_kernel_r15	bnr_space_kernel_r14	2014		1
	0	16	0	6	2054		Res	Res	Res	bnr_space_kernel_r18	2018		1
	0	16	0	7	2055		Res	Res	Res	Res	201C		1
	0	16	0	8	2056		bnr_space_kernel_r23	bnr_space_kernel_r22	bnr_space_kernel_r21	bnr_space_kernel_r20	2020		1
	0	16	0	9	2057		bnr_space_kernel_r27	bnr_space_kernel_r26	bnr_space_kernel_r25	bnr_space_kernel_r24	2024		1
	0	16	0	10	2058		Res	Res	Res	bnr_space_kernel_r28	2028		1
	0	16	0	11	2059		Res	Res	Res	Res	202C		1
	0	16	0	12	2060		bnr_space_kernel_r33	bnr_space_kernel_r32	bnr_space_kernel_r31	bnr_space_kernel_r30	2030		1
	0	16	0	13	2061		bnr_space_kernel_r37	bnr_space_kernel_r36	bnr_space_kernel_r35	bnr_space_kernel_r34	2034		1
	0	16	0	14	2062		Res	Res	Res	bnr_space_kernel_r38	2038		1
	0	16	0	15	2063		Res	Res	Res	Res	203C		1
	0	16	1	0	2064		bnr_space_kernel_r43	bnr_space_kernel_r42	bnr_space_kernel_r41	bnr_space_kernel_r40	2040		1
	0	16	1	1	2065		bnr_space_kernel_r47	bnr_space_kernel_r46	bnr_space_kernel_r45	bnr_space_kernel_r44	2044		1
	0	16	1	2	2066		Res	Res	Res	bnr_space_kernel_r48	2048		1
	0	16	1	3	2067		Res	Res	Res	Res	204C		1
	0	16	1	4	2068		bnr_space_kernel_r53	bnr_space_kernel_r52	bnr_space_kernel_r51	bnr_space_kernel_r50	2050		1
	0	16	1	5	2069		bnr_space_kernel_r57	bnr_space_kernel_r56	bnr_space_kernel_r55	bnr_space_kernel_r54	2054		1
	0	16	1	6	2070		Res	Res	Res	bnr_space_kernel_r58	2058		1
	0	16	1	7	2071		Res	Res	Res	Res	205C		1
	0	16	1	8	2072		bnr_space_kernel_r63	bnr_space_kernel_r62	bnr_space_kernel_r61	bnr_space_kernel_r60	2060		1
	0	16	1	9	2073		bnr_space_kernel_r67	bnr_space_kernel_r66	bnr_space_kernel_r65	bnr_space_kernel_r64	2064		1
	0	16	1	10	2074		Res	Res	Res	bnr_space_kernel_r68	2068		1
	0	16	1	11	2075		Res	Res	Res	Res	206C		1

Infinite-ISP REGISTER MAP
Master Base Address: A005_0000, Master High Address: A005_FFFF

Module Name	Mode (0 - 3)	Module ID (0 - 31)	Block ID (0 - 7)	Register ID (0 - 15)		Absolute Register Index		Data Register (32-bits) 1 section = 4 Bytes / 2 sections = 2 Bytes each / 4 sections = 1 Byte each				Absolute Register Address		Register Count
BAYER NOISE REDUCTION (BNR)	0	16	1	12		2076		bnr_space_kernel_r73	bnr_space_kernel_r72	bnr_space_kernel_r71	bnr_space_kernel_r70	2070		1
	0	16	1	13		2077		bnr_space_kernel_r77	bnr_space_kernel_r76	bnr_space_kernel_r75	bnr_space_kernel_r74	2074		1
	0	16	1	14		2078		Res	Res	Res	bnr_space_kernel_r78	2078		1
	0	16	1	15		2079		Res	Res	Res	Res	207C		1
	0	16	2	0		2080		bnr_space_kernel_r83	bnr_space_kernel_r82	bnr_space_kernel_r81	bnr_space_kernel_r80	2080		1
	0	16	2	1		2081		bnr_space_kernel_r87	bnr_space_kernel_r86	bnr_space_kernel_r85	bnr_space_kernel_r84	2084		1
	0	16	2	2		2082		Res	Res	Res	bnr_space_kernel_r88	2088		1
	0	16	2	3		2083		Res	Res	Res	Res	208C		1
	0	16	2	4	15	2084	2095	Reserved				2090	20BC	12
	0	16	3	0	15	2096	2111	Reserved				20C0	20FC	16
	0	16	4	0		2112		bnr_space_kernel_g03	bnr_space_kernel_g02	bnr_space_kernel_g01	bnr_space_kernel_g00	2100		1
	0	16	4	1		2113		bnr_space_kernel_g07	bnr_space_kernel_g06	bnr_space_kernel_g05	bnr_space_kernel_g04	2104		1
	0	16	4	2		2114		Res	Res	Res	bnr_space_kernel_g08	2108		1
	0	16	4	3		2115		Res	Res	Res	Res	210C		1
	0	16	4	4		2116		bnr_space_kernel_g13	bnr_space_kernel_g12	bnr_space_kernel_g11	bnr_space_kernel_g10	2110		1
	0	16	4	5		2117		bnr_space_kernel_g17	bnr_space_kernel_g16	bnr_space_kernel_g15	bnr_space_kernel_g14	2114		1
	0	16	4	6		2118		Res	Res	Res	bnr_space_kernel_g18	2118		1
	0	16	4	7		2119		Res	Res	Res	Res	211C		1
	0	16	4	8		2120		bnr_space_kernel_g23	bnr_space_kernel_g22	bnr_space_kernel_g21	bnr_space_kernel_g20	2120		1
	0	16	4	9		2121		bnr_space_kernel_g27	bnr_space_kernel_g26	bnr_space_kernel_g25	bnr_space_kernel_g24	2124		1
	0	16	4	10		2122		Res	Res	Res	bnr_space_kernel_g28	2128		1
	0	16	4	11		2123		Res	Res	Res	Res	212C		1
	0	16	4	12		2124		bnr_space_kernel_g33	bnr_space_kernel_g32	bnr_space_kernel_g31	bnr_space_kernel_g30	2130		1
	0	16	4	13		2125		bnr_space_kernel_g37	bnr_space_kernel_g36	bnr_space_kernel_g35	bnr_space_kernel_g34	2134		1
	0	16	4	14		2126		Res	Res	Res	bnr_space_kernel_g38	2138		1
	0	16	4	15		2127		Res	Res	Res	Res	213C		1
	0	16	5	0		2128		bnr_space_kernel_g43	bnr_space_kernel_g42	bnr_space_kernel_g41	bnr_space_kernel_g40	2140		1
	0	16	5	1		2129		bnr_space_kernel_g47	bnr_space_kernel_g46	bnr_space_kernel_g45	bnr_space_kernel_g44	2144		1
	0	16	5	2		2130		Res	Res	Res	bnr_space_kernel_g48	2148		1
	0	16	5	3		2131		Res	Res	Res	Res	214C		1
	0	16	5	4		2132		bnr_space_kernel_g53	bnr_space_kernel_g52	bnr_space_kernel_g51	bnr_space_kernel_g50	2150		1
	0	16	5	5		2133		bnr_space_kernel_g57	bnr_space_kernel_g56	bnr_space_kernel_g55	bnr_space_kernel_g54	2154		1
	0	16	5	6		2134		Res	Res	Res	bnr_space_kernel_g58	2158		1
	0	16	5	7		2135		Res	Res	Res	Res	215C		1
	0	16	5	8		2136		bnr_space_kernel_g63	bnr_space_kernel_g62	bnr_space_kernel_g61	bnr_space_kernel_g60	2160		1
	0	16	5	9		2137		bnr_space_kernel_g67	bnr_space_kernel_g66	bnr_space_kernel_g65	bnr_space_kernel_g64	2164		1
	0	16	5	10		2138		Res	Res	Res	bnr_space_kernel_g68	2168		1
	0	16	5	11		2139		Res	Res	Res	Res	216C		1
	0	16	5	12		2140		bnr_space_kernel_g73	bnr_space_kernel_g72	bnr_space_kernel_g71	bnr_space_kernel_g70	2170		1
	0	16	5	13		2141		bnr_space_kernel_g77	bnr_space_kernel_g76	bnr_space_kernel_g75	bnr_space_kernel_g74	2174		1
	0	16	5	14		2142		Res	Res	Res	bnr_space_kernel_g78	2178		1
	0	16	5	15		2143		Res	Res	Res	Res	217C		1
	0	16	6	0		2144		bnr_space_kernel_g83	bnr_space_kernel_g82	bnr_space_kernel_g81	bnr_space_kernel_g80	2180		1
	0	16	6	1		2145		bnr_space_kernel_g87	bnr_space_kernel_g86	bnr_space_kernel_g85	bnr_space_kernel_g84	2184		1
	0	16	6	2		2146		Res	Res	Res	bnr_space_kernel_g88	2188		1
	0	16	6	3		2147		Res	Res	Res	Res	218C		1
	0	16	6	4	15	2148	2159	Reserved				2190	21BC	12
	0	16	7	0	15	2160	2175	Reserved				21C0	21FC	16
	0	17	0	0		2176		bnr_space_kernel_b03	bnr_space_kernel_b02	bnr_space_kernel_b01	bnr_space_kernel_b00	2200		1
	0	17	0	1		2177		bnr_space_kernel_b07	bnr_space_kernel_b06	bnr_space_kernel_b05	bnr_space_kernel_b04	2204		1
	0	17	0	2		2178		Res	Res	Res	bnr_space_kernel_b08	2208		1
	0	17	0	3		2179		Res	Res	Res	Res	220C		1
	0	17	0	4		2180		bnr_space_kernel_b13	bnr_space_kernel_b12	bnr_space_kernel_b11	bnr_space_kernel_b10	2210		1
	0	17	0	5		2181		bnr_space_kernel_b17	bnr_space_kernel_b16	bnr_space_kernel_b15	bnr_space_kernel_b14	2214		1
	0	17	0	6		2182		Res	Res	Res	bnr_space_kernel_b18	2218		1
	0	17	0	7		2183		Res	Res	Res	Res	221C		1
	0	17	0	8		2184		bnr_space_kernel_b23	bnr_space_kernel_b22	bnr_space_kernel_b21	bnr_space_kernel_b20	2220		1
	0	17	0	9		2185		bnr_space_kernel_b27	bnr_space_kernel_b26	bnr_space_kernel_b25	bnr_space_kernel_b24	2224		1
	0	17	0	10		2186		Res	Res	Res	bnr_space_kernel_b28	2228		1
	0	17	0	11		2187		Res	Res	Res	Res	222C		1
	0	17	0	12		2188		bnr_space_kernel_b33	bnr_space_kernel_b32	bnr_space_kernel_b31	bnr_space_kernel_b30	2230		1
	0	17	0	13		2189		bnr_space_kernel_b37	bnr_space_kernel_b36	bnr_space_kernel_b35	bnr_space_kernel_b34	2234		1
	0	17	0	14		2190		Res	Res	Res	bnr_space_kernel_b38	2238		1
	0	17	0	15		2191		Res	Res	Res	Res	223C		1
	0	17	1	0		2192		bnr_space_kernel_b43	bnr_space_kernel_b42	bnr_space_kernel_b41	bnr_space_kernel_b40	2240		1
	0	17	1	1		2193		bnr_space_kernel_b47	bnr_space_kernel_b46	bnr_space_kernel_b45	bnr_space_kernel_b44	2244		1
	0	17	1	2		2194		Res	Res	Res	bnr_space_kernel_b48	2248		1
	0	17	1	3		2195		Res	Res	Res	Res	224C		1
	0	17	1	4		2196		bnr_space_kernel_b53	bnr_space_kernel_b52	bnr_space_kernel_b51	bnr_space_kernel_b50	2250		1
	0	17	1	5		2197		bnr_space_kernel_b57	bnr_space_kernel_b56	bnr_space_kernel_b55	bnr_space_kernel_b54	2254		1
	0	17	1	6		2198		Res	Res	Res	bnr_space_kernel_b58	2258		1
	0	17	1	7		2199		Res	Res	Res	Res	225C		1
	0	17	1	8		2200		bnr_space_kernel_b63	bnr_space_kernel_b62	bnr_space_kernel_b61	bnr_space_kernel_b60	2260		1
	0	17	1	9		2201		bnr_space_kernel_b67	bnr_space_kernel_b66	bnr_space_kernel_b65	bnr_space_kernel_b64	2264		1
	0	17	1	10		2202		Res	Res	Res	bnr_space_kernel_b68	2268		1
	0	17	1	11		2203		Res	Res	Res	Res	226C		1
	0	17	1	12		2204		bnr_space_kernel_b73	bnr_space_kernel_b72	bnr_space_kernel_b71	bnr_space_kernel_b70	2270		1
	0	17	1	13		2205		bnr_space_kernel_b77	bnr_space_kernel_b76	bnr_space_kernel_b75	bnr_space_kernel_b74	2274		1
	0	17	1	14		2206		Res	Res	Res	bnr_space_kernel_b78	2278		1
	0	17	1	15		2207		Res	Res	Res	Res	227C		1
	0	17	2	0		2208		bnr_space_kernel_b83	bnr_space_kernel_b82	bnr_space_kernel_b81	bnr_space_kernel_b80	2280		1
	0	17	2	1		2209		bnr_space_kernel_b87	bnr_space_kernel_b86	bnr_space_kernel_b85	bnr_space_kernel_b84	2284		1
	0	17	2	2		2210		Res	Res	Res	bnr_space_kernel_b88	2288		1
	0	17	2	3		2211		Res	Res	Res	Res	228C		1
	0	17	2	4	15	2212	2223	Reserved				2290	22BC	12
	0	17	3	7	0	15	2224	2303	Reserved				22C0	23FC	80
	0	18	0	0		2304		bnr_color_curve_x_r_0				2400		1
	0	18	0	1		2305		bnr_color_curve_x_r_1				2404		1
	0	18	0	2		2306		bnr_color_curve_x_r_2				2408		1
	0	18	0	3		2307		bnr_color_curve_x_r_3				240C		1
	0	18	0	4		2308		bnr_color_curve_x_r_4				2410		1
	0	18	0	5		2309		bnr_color_curve_x_r_5				2414		1
	0	18	0	6		2310		bnr_color_curve_x_r_6				2418		1
	0	18	0	7		2311		bnr_color_curve_x_r_7				241C		1
	0	18	0	8		2312		bnr_color_curve_x_r_8				2420		1
	0	18	0	9	15	2313	2319	Reserved				2424	243C	7
	0	18	1	0		2320		bnr_color_curve_y_r_0				2440		1
	0	18	1	1		2321		bnr_color_curve_y_r_1				2444		1
	0	18	1	2		2322		bnr_color_curve_y_r_2				2448		1
	0	18	1	3		2323		bnr_color_curve_y_r_3				244C		1

Infinite-ISP REGISTER MAP
Master Base Address: A005_0000, Master High Address: A005_FFFF

Module Name	Mode (0 - 3)		Module ID (0 - 31)		Block ID (0 - 7)		Register ID (0 - 15)		Absolute Register Index		Data Register (32-bits) 1 section = 4 Bytes 2 sections = 2 Bytes each 4 sections = 1 Byte each				Absolute Register Address		Register Count
	0		18		1		4		2324		bnr_color_curve_y_r_4				2450		1
	0		18		1		5		2325		bnr_color_curve_y_r_5				2454		1
	0		18		1		6		2326		bnr_color_curve_y_r_6				2458		1
	0		18		1		7		2327		bnr_color_curve_y_r_7				245C		1
	0		18		1		8		2328		bnr_color_curve_y_r_8				2460		1
	0		18		1		9	15	2329	2335	Reserved				2464	247C	7
	0		18		2		0		2336		bnr_color_curve_x_g_0				2480		1
	0		18		2		1		2337		bnr_color_curve_x_g_1				2484		1
	0		18		2		2		2338		bnr_color_curve_x_g_2				2488		1
	0		18		2		3		2339		bnr_color_curve_x_g_3				248C		1
	0		18		2		4		2340		bnr_color_curve_x_g_4				2490		1
	0		18		2		5		2341		bnr_color_curve_x_g_5				2494		1
	0		18		2		6		2342		bnr_color_curve_x_g_6				2498		1
	0		18		2		7		2343		bnr_color_curve_x_g_7				249C		1
	0		18		2		8		2344		bnr_color_curve_x_g_8				24A0		1
	0		18		2		9	15	2345	2351	Reserved				24A4	24BC	7
	0		18		3		0		2352		bnr_color_curve_y_g_0				24C0		1
	0		18		3		1		2353		bnr_color_curve_y_g_1				24C4		1
	0		18		3		2		2354		bnr_color_curve_y_g_2				24C8		1
	0		18		3		3		2355		bnr_color_curve_y_g_3				24CC		1
	0		18		3		4		2356		bnr_color_curve_y_g_4				24D0		1
	0		18		3		5		2357		bnr_color_curve_y_g_5				24D4		1
	0		18		3		6		2358		bnr_color_curve_y_g_6				24D8		1
	0		18		3		7		2359		bnr_color_curve_y_g_7				24DC		1
	0		18		3		8		2360		bnr_color_curve_y_g_8				24E0		1
	0		18		3		9	15	2361	2367	Reserved				24E4	24FC	7
	0		18		4		0		2368		bnr_color_curve_x_b_0				2500		1
	0		18		4		1		2369		bnr_color_curve_x_b_1				2504		1
	0		18		4		2		2370		bnr_color_curve_x_b_2				2508		1
	0		18		4		3		2371		bnr_color_curve_x_b_3				250C		1
	0		18		4		4		2372		bnr_color_curve_x_b_4				2510		1
	0		18		4		5		2373		bnr_color_curve_x_b_5				2514		1
	0		18		4		6		2374		bnr_color_curve_x_b_6				2518		1
	0		18		4		7		2375		bnr_color_curve_x_b_7				251C		1
	0		18		4		8		2376		bnr_color_curve_x_b_8				2520		1
	0		18		4		9	15	2377	2383	Reserved				2524	253C	7
	0		18		5		0		2384		bnr_color_curve_y_b_0				2540		1
	0		18		5		1		2385		bnr_color_curve_y_b_1				2544		1
	0		18		5		2		2386		bnr_color_curve_y_b_2				2548		1
	0		18		5		3		2387		bnr_color_curve_y_b_3				254C		1
	0		18		5		4		2388		bnr_color_curve_y_b_4				2550		1
	0		18		5		5		2389		bnr_color_curve_y_b_5				2554		1
	0		18		5		6		2390		bnr_color_curve_y_b_6				2558		1
	0		18		5		7		2391		bnr_color_curve_y_b_7				255C		1
	0		18		5		8		2392		bnr_color_curve_y_b_8				2560		1
	0		18		5		9	15	2393	2399	Reserved				2564	257C	7
	0		18	19	6	7	0	15	2400	2559	Reserved				2580	27FC	160
Reserved	0		20	23	0	7	0	15	2560	3071	Reserved				2800	2FFC	512
	0		24		0		0		3072		nr2d_diff_3	nr2d_diff_2	nr2d_diff_1	nr2d_diff_0	3000		1
	0		24		0		1		3073		nr2d_diff_7	nr2d_diff_6	nr2d_diff_5	nr2d_diff_4	3004		1
	0		24		0		2		3074		nr2d_diff_11	nr2d_diff_10	nr2d_diff_9	nr2d_diff_8	3008		1
	0		24		0		3		3075		nr2d_diff_15	nr2d_diff_14	nr2d_diff_13	nr2d_diff_12	300C		1
	0		24		0		4		3076		nr2d_diff_19	nr2d_diff_18	nr2d_diff_17	nr2d_diff_16	3010		1
	0		24		0		5		3077		nr2d_diff_23	nr2d_diff_22	nr2d_diff_21	nr2d_diff_20	3014		1
	0		24		0		6		3078		nr2d_diff_27	nr2d_diff_26	nr2d_diff_25	nr2d_diff_24	3018		1
	0		24		0		7		3079		nr2d_diff_31	nr2d_diff_30	nr2d_diff_29	nr2d_diff_28	301C		1
	0		24		0	3	8	15	3080	3135	Reserved				3020	30FC	56
	0		24		4		0		3136		nr2d_weight_3	nr2d_weight_2	nr2d_weight_1	nr2d_weight_0	3100		1
	0		24		4		1		3137		nr2d_weight_7	nr2d_weight_6	nr2d_weight_5	nr2d_weight_4	3104		1
	0		24		4		2		3138		nr2d_weight_11	nr2d_weight_10	nr2d_weight_9	nr2d_weight_8	3108		1
	0		24		4		3		3139		nr2d_weight_15	nr2d_weight_14	nr2d_weight_13	nr2d_weight_12	310C		1
	0		24		4		4		3140		nr2d_weight_19	nr2d_weight_18	nr2d_weight_17	nr2d_weight_16	3110		1
	0		24		4		5		3141		nr2d_weight_23	nr2d_weight_22	nr2d_weight_21	nr2d_weight_20	3114		1
	0		24		4		6		3142		nr2d_weight_27	nr2d_weight_26	nr2d_weight_25	nr2d_weight_24	3118		1
	0		24		4		7		3143		nr2d_weight_31	nr2d_weight_30	nr2d_weight_29	nr2d_weight_28	311C		1
	0		24		4	7	8	15	3144	3199	Reserved				3120	31FC	56
Reserved	0		25	31	0	7	0	15	3200	4095	Reserved				3200	3FFC	896
GAMMA LUT	1		0	31	0	7	0	15	4096	8191	GAMMA LUT				4000	7FFC	4096
OECF LUTs	2	3	0	31	0	7	0	15	8192	16383	OECF LUTs				8000	FFFC	8192

2DNR (Module Name label spanning the 2DNR rows above, Module ID 24)

TOP_EN*																	
17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
CROP_EN	AWB_EN	AE_EN	SHARP_EN	2DNR_EN	LDCI_EN	CSC_EN	GAMMA_EN	CCM_EN	DEMOSIC_EN	WB_EN	BNR_EN	LSC_EN	DGAIN_EN	OECF_EN	LINEAR_EN	BLC_EN	DPC_EN

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GF_EN

Infinite-ISP REGISTER MAP

Master Base Address: A005_0000, Master High Address: A005_FFFF

Module Name	Address Register (16-bits)				Absolute Register Index	Data Register (32-bits) 1 section = 4 Bytes 2 sections = 2 Bytes each 4 sections = 1 Byte each	Absolute Register Address	Register Count
	Mode (0 - 3)	Module ID (0 - 31)	Block ID (0 - 7)	Register ID (0 - 15)				