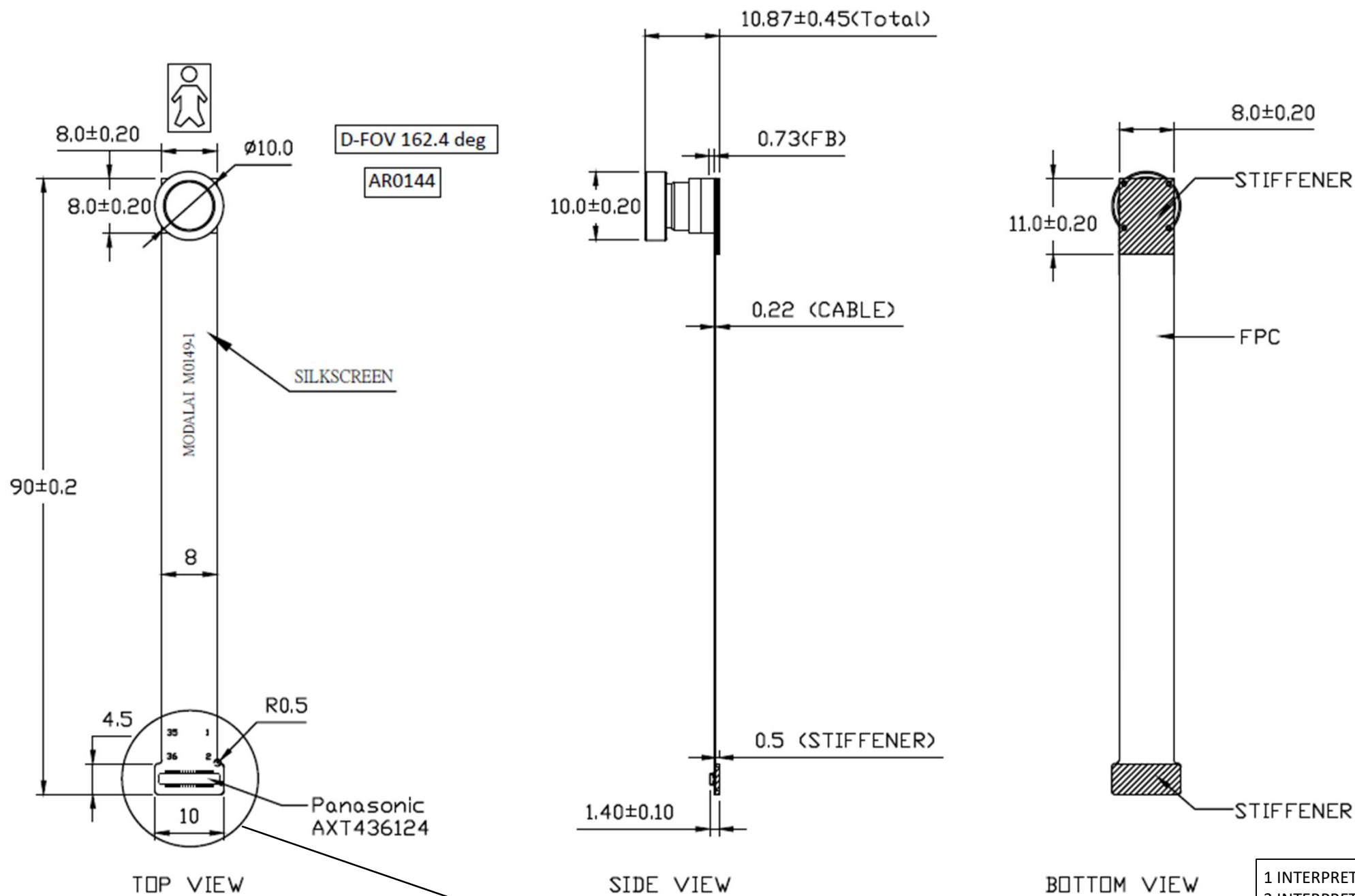


MODALAI, INC. M0149

AR0144 1280x800 Sensor for VOXL 2® Tracking



PIN	Assignment	PIN	Assignment
1	DGND	2	DGND
3	NC	4	NC
5	SDA	6	VDDIO1.8
7	SCL	8	NC
9	RST_0	10	XCLK
11	DGND	12	DGND
13	MCP	14	FLASH
15	MCN	16	NC
17	MDP0	18	NC
19	MDN0	20	AVDD2.8V
21	DGND	22	AGND
23	MDP1	24	NC
25	MDN1	26	TRIGGER
27	NC	28	NC
29	NC	30	NC
31	DGND	32	DGND
33	NC	34	NC
35	NC	36	DGND

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
DIMENSION UNITS ARE AS NOTED/PER NOTE 2
AND APPLY AFTER SURFACE TREATMENT

TOLERANCES			
LINEAR		ANGULAR	
MM	INCHES	MM	INCHES
X +/- .25	X +/- .01	EXCL OF SHEET	
X.X +/- .076	X.X +/- .03	METAL FLANGES	
X.XX +/- .025	X.XX +/- .010	+/- 0 DEG 30'	

HOLE DIAMETERS			
MM		INCHES	
0.34 - 6.35	+0.13 - 0.03	.013 - .250	+ .005 - .001
6.37 - 12.70	+0.15 - 0.03	.251 - .500	+ .006 - .001
12.72 - 25.40	+0.25 - 0.03	.501 - 1.000	+ .010 - .001

1 INTERPRET DRAWING PER ASME Y14.100.
 2 INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009.
 3 ALL DIMENSIONS IN MILLIMETERS. INCHES WHERE INDICATED.
 POSSIBLE MIXED DIMENSIONS WITHIN A SINGLE DRAWING.
 4 ALL MATERIALS AND PROCESSES USED TO MANUFACTURE THIS COMPONENT SHALL COMPLY WITH THE EUROPEAN UNION DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS).

LENS SIZE:	1/4 inch (4.5mm)	CMOS SENSOR:	AR0144
EFL:	1.7mm	Array Size:	1280*800 =1.0 Mp
F. NO:	2.4	DVDD:	1.2V (from AVDD)
FOV(DxHxV):	162° x 132° x 82°	DOVDD:	1.8 ±0.1V
Distortion:	-31.79%	AVDD:	2.8 ±0.3V
Lens Mount	M7 * P0.35	I2C ADDRESS:	0x20h

