

dispelix

DPX 30° waveguide display: design specifications

PARAMETER	TYP	UNIT	COMMENT
Field of view	30	deg	diagonal
Aspect ratio	16:9		
Eye relief	20	mm	
Eye box dimension	16 x 12	mm	4 mm pupil
Input pupil diameter	5	mm	circular
Input pupil standoff	0.5	mm	
Image focus distance	infinity		
LED centre wavelengths	R: 620 G: 520 B: 460	nm	

DPX 30° waveguide display: design characteristics

PARAMETER	VALUE	UNIT	COMMENT
Efficiency	200	nit/lm	waveguide/optical engine
MTF	15	lp/deg	>45% contrast
Transmittance	82	%	normal incidence
Contrast	1:60		ANSI white checkerboard

DPX 30° waveguide display: mechanical properties

PARAMETER	VALUE	UNIT	COMMENT
Dimensions		mm	
Thickness	1.3	mm	waveguide 0.8 mm
Weight	10.5	g	
Shape outline			customizable

DPX 30° optical engine: design specifications

PARAMETER	TYP		COMMENT
Projector type	DLP		
Field of view	30	deg	
Image orientation	landscape		
Display resolution	854 x 480	p	WVGA
Projection type	color sequential		
Flux at the exit pupil	15	lm/W	
Dimensions	42 x 15 x 9	mm	
Weight	9	g	

DPX 30° waveguide display module: design specifications

PARAMETER	TYP	UNIT	COMMENT
Field of view	30	deg	diagonal
System resolution	854 x 480	p	WVGA
Eye relief	20	mm	
Efficiency	1500	nit/W	
Input pupil diameter	5	mm	
Refresh	120	Hz	
Interface	HDMI	video	