

Bottom/Side Parallel Flat Backlight Illumination -BFP /BFCP Series

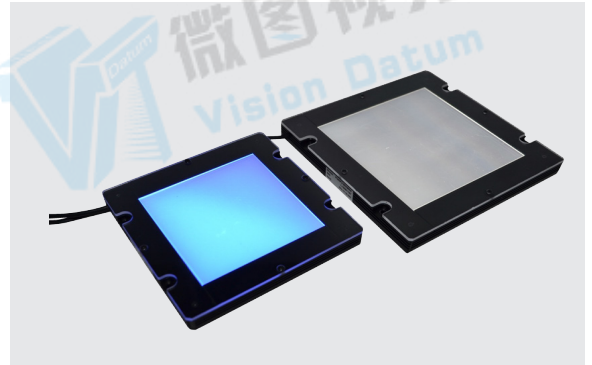
Flat lights provide large parallel emitting area.

Features

- Optimizing the lights with unique material, making the light radiate in parallel.
- The light is with standard mold shell and compact structure, easy to install.

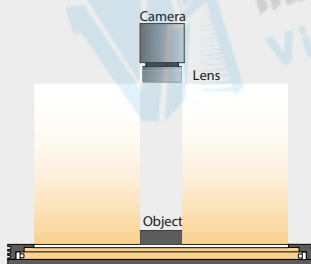
Applications

- Dimension measuring, appearance inspection.
- Identification and inspection of the large size mechanical parts.



Illumination Structure

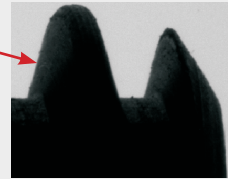
Compared with BFC series, BFCP series add an unique parallel plate above the diffusion plate to make the light radiate in parallel



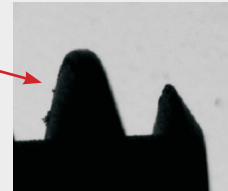
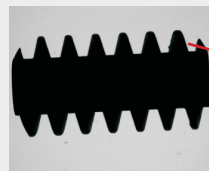
Examples of Parallel Flat Backlight Images

Comparison of screw thread image

Using parallel flat light could illuminate the edge of the screw thread more clearly and precisely.



Generic Flat Lighting (BFC series)
Image of screw thread and enlarged view



Parallel Flat Lighting (BFCP series)
Image of screw thread and enlarged view

Common Specifications

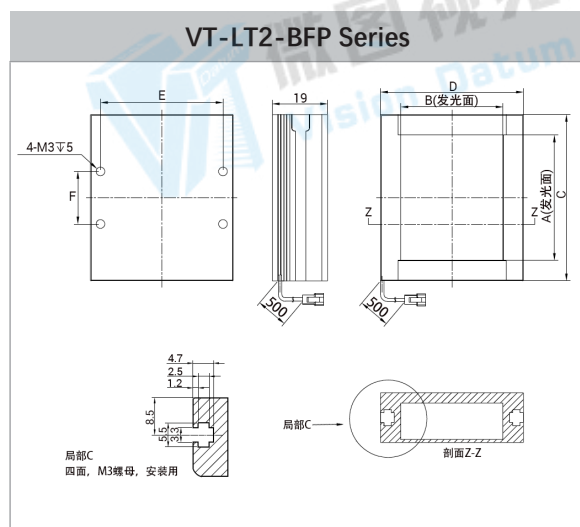
Input voltage	24 VDC
Wavelength range	Red: 620-630nm; Blue: 460-475nm; Green: 520-530nm;
Color temperature (white)	5800-7500K
Operating environment (indoor)	Temperature: 0~40°C Humidity: 20% to 85% RH (with no condensation)
Life time	White:30,000hrs, Red: 60,000hrs (Depends on the operating environment, not a guarantee)
Case material	Aluminum alloy, Resin

Explanation of Model Code

Series	Emitting Length	Emitting Width	Color
VT-LT2-BFP/BFCP	100	100	(W/B/R)
LT2-BFP	Flat lights provide area illumination with LED beads distributed on the bottom.		
LT2-BFCP	Flat lights provide area illumination with LED beads distributed on the inner side.		

Model No.	Optical spec.		Working Distance	Electrical specifications (GREEN / NIR / UV Accept custom)			Dimensions		
	Light Area			Recommended WD (mm)	Supply Voltage (v)	Power cons. (w) ●	Power cons. (w) ● ○ ●	Length (mm)	Width (mm)
Length (mm)	Width (mm)								
VT-LT2-BFP2727	27	27	30-100	24	3.0	10.9	41	41	19
VT-LT2-BFP4335	43	35	30-100	24	5.9	7.9	57	49	19
VT-LT2-BFP5050	50	50	30-100	24	6.0	9.3	64	64	19
VT-LT2-BFP6360	63	60	30-100	24	6.8	12.6	77	74	19
VT-LT2-BFP8375	83	75	30-100	24	4.4	10.0	97	89	19
VT-LT2-BFP100100	100	100	30-100	24	6.5	12.1	114	114	19
VT-LT2-BFP140105	140	105	30-100	24	6.7	26.3	154	119	19
VT-LT2-BFP160120	160	120	30-100	24	8.4	16.8	174	134	19
VT-LT2-BFP20050	200	50	30-100	24	8.2	16.6	214	64	19
VT-LT2-BFP200150	200	150	30-100	24	15.5	35.0	214	164	19
VT-LT2-BFP211200	211	200	30-100	24	12.3	24.0	225	214	19
VT-LT2-BFP224170	224	170	30-100	24	36.3	36.3	238	184	19

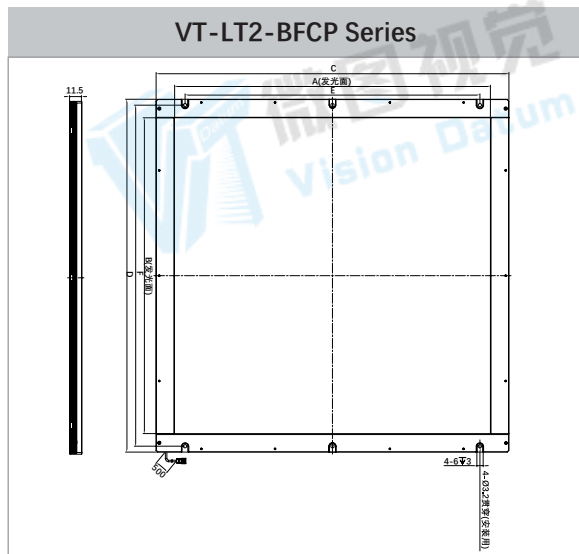
Dimension (mm)



Model No.	Dimensions					
	A	B	C	D	E	F
VT-LT2-BFP2727	27	27	41	41	34	18
VT-LT2-BFP4335	43	35	57	49	42	18
VT-LT2-BFP5050	50	50	64	64	57	18
VT-LT2-BFP6360	63	60	77	74	67	25
VT-LT2-BFP8375	83	75	97	89	82	50
VT-LT2-BFP100100	100	100	114	114	107	50
VT-LT2-BFP140105	140	105	154	119	112	80
VT-LT2-BFP160120	160	120	174	134	127	80
VT-LT2-BFP20050	200	50	214	64	57	80
VT-LT2-BFP200150	200	150	214	164	157	80
VT-LT2-BFP211200	211	200	225	214	207	80
VT-LT2-BFP224170	224	170	238	184	177	80

Model No.	Optical spec.		Working Distance	Electrical specifications (GREEN / NIR / UV Accept custom)			Dimensions		
	Light Area			Recommended WD (mm)	Supply Voltage (v)	Power cons. (w) ●	Power cons. (w) ● ○ ●	Length (mm)	Width (mm)
Length (mm)	Width (mm)								
VT-LT2-BFCP5050	50	50	30-100	24	3.0	10.9	85	85	11.5
VT-LT2-BFCP7070	70	70	30-100	24	5.9	7.9	105	105	11.5
VT-LT2-BFCP8080	80	80	30-100	24	6.0	10.0	115	115	11.5
VT-LT2-BFCP9090	90	90	30-100	24	6.3	12.6	125	125	11.5
VT-LT2-BFCP110110	110	110	30-100	24	6.8	12.6	145	145	11.5
VT-LT2-BFCP150100	150	100	30-100	24	4.4	10.0	185	135	11.5
VT-LT2-BFCP200160	200	160	30-100	24	6.5	12.1	235	195	11.5
VT-LT2-BFCP200200	200	200	30-100	24	6.7	26.3	235	235	11.5
VT-LT2-BFCP250200	250	200	30-100	24	8.4	16.8	285	235	11.5
VT-LT2-BFCP300200	300	200	30-100	24	8.2	16.6	335	235	11.5
VT-LT2-BFCP300300	300	300	30-100	24	15.5	35.0	335	235	11.5
VT-LT2-BFCP400300	400	300	30-100	24	12.3	24.0	435	335	11.5
VT-LT2-BFCP600400	600	400	30-100	24	14.6	36.3	635	435	11.5

Dimension (mm)



Model No.	Dimensions					
	A	B	C	D	E	F
VT-LT2-BFCP5050	50	50	85	85	-	-
VT-LT2-BFCP7070	70	70	105	105	50	94
VT-LT2-BFCP8080	80	80	115	115	60	104
VT-LT2-BFCP9090	90	90	125	125	70	114
VT-LT2-BFCP110110	110	110	145	145	90	134
VT-LT2-BFCP150100	150	100	185	135	130	124
VT-LT2-BFCP200160	200	160	235	195	180	184
VT-LT2-BFCP200200	200	200	235	235	180	224
VT-LT2-BFCP250200	250	200	285	235	230	224
VT-LT2-BFCP300200	300	200	335	235	280	224
VT-LT2-BFCP300300	300	300	335	235	280	324
VT-LT2-BFCP400300	400	300	435	335	380	324
VT-LT2-BFCP600400	600	400	635	435	580	424