



# PHERO



## Back Panel



## Box Contents

- ENTTEC PHERO (73900 or 79001)
- Mounting brackets
- This user manual

## Features

- 30 independently controllable RGB Pixels
- Flexible, light and slick design
- In-built Power Supply
- Compatible with ENTTEC Pixelator and Pixie driver
- Plink data bus allows to daisy-chain up to 11 units
- Standard Cat6 wiring allows up to 300m distances
- Mains power through Powercon connectors for convenient installation
- 50.000+ hours expected LED life
- Up to 90 DMX channels through Pixelator
- Over voltage input protection

## Safety

- Mains voltages inside, please never intend to open it when mains connected

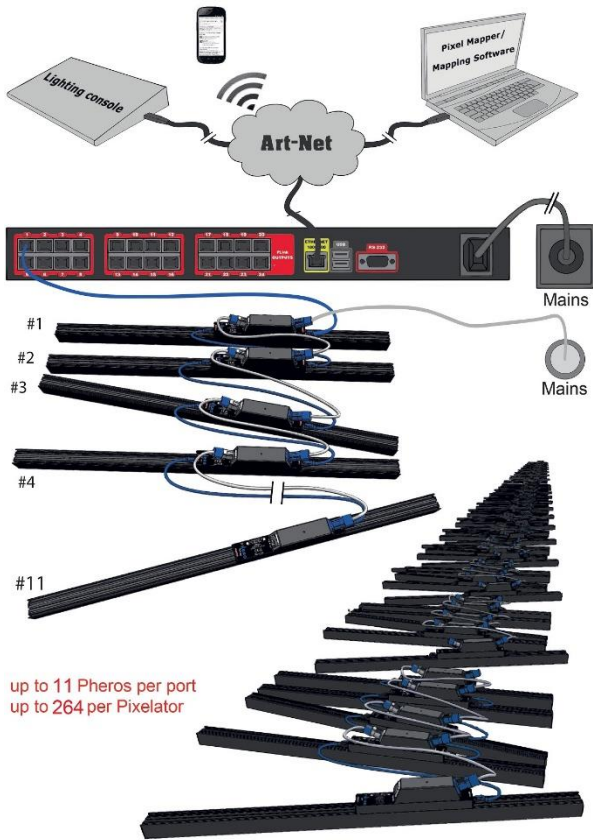
- Do not expose the ENTTEC Phero to rain or moisture, doing this will void the warranty
- Do not remove the cover, there are no serviceable parts inside
- This unit is intended for indoor use only
- Ensure proper earth connections

## Basic Setup

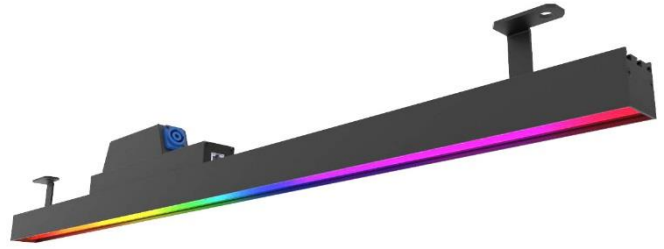
- Connect the ENTTEC Phero to a Plink enabled device such as ENTTEC Pixelator using a cat5/6 cable
- Power up the unit using the blue powercon connector. The power LED should light up
- Feed some data through your Plink enabled device



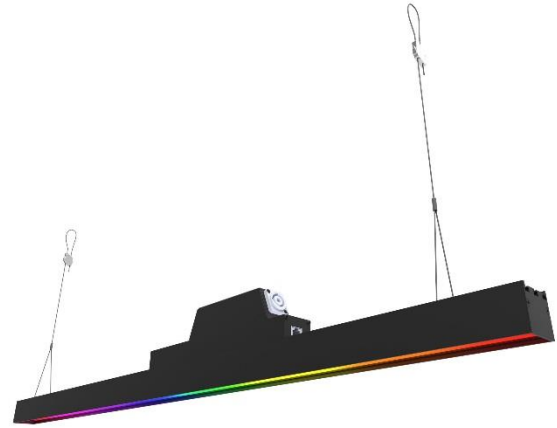
## Typical Installation with Pixelator



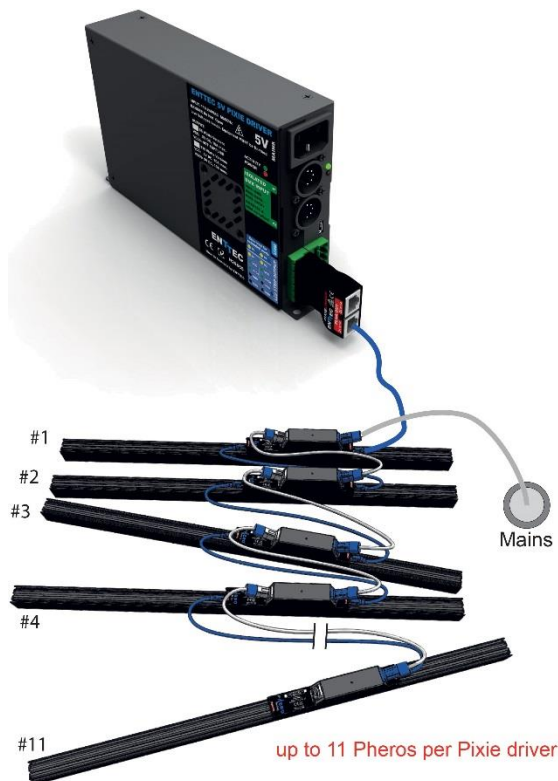
## Mounting Brackets (included)



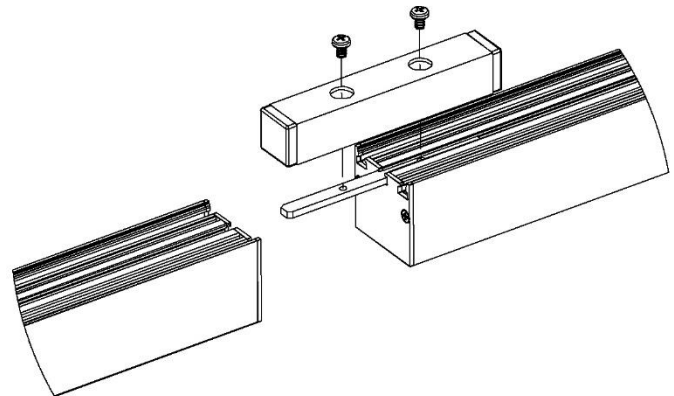
## Hanging cable with Gripple (sold separately)



## Typical Installation with Pixie Driver



## End to end Attachment (sold separately)



## DMX Addressing

Each Phero counts with 30 RGB Pixels, which means 90 DMX slots. By default, the first unit connected to the controller will auto address to DMX channel 1 to 90. Where CH1=Pixel1 Red, CH2=Pixel1 Green, CH3=Pixel1 Blue, CH4=Pixel2 Red and so on.



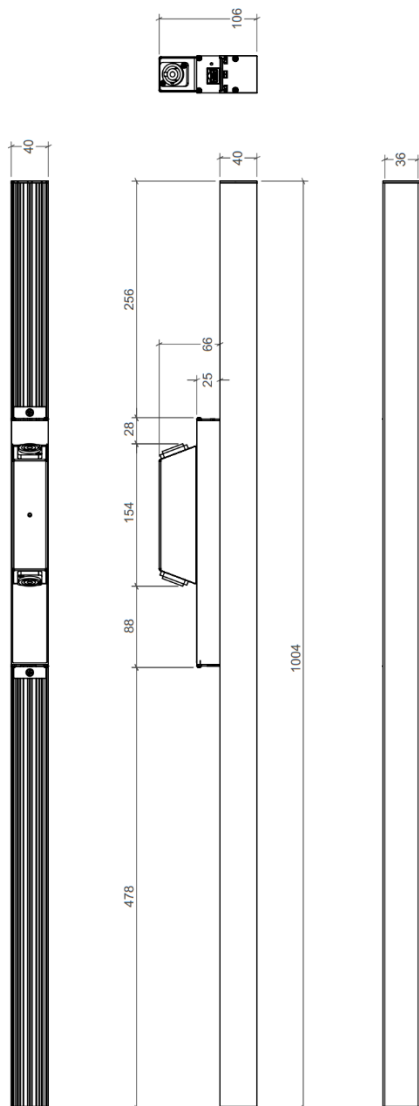
When Pheros are daisy-chained, the following unit will automatically take the next consecutive DMX slot, for the example, the second unit's DMX start address will be 91.

A maximum number of 11 Pheros can be daisy chained per Plink port if using 2 universes mode from the controller.

Please refer to [Annex 1](#) to see a full DMX table of 11 daisy-chained Pheros.

It is possible to change the DMX start address from the controller and all the other pixels will auto-address to the following slot. Please refer to [Pixelator](#) or [Pixie Driver](#) documentation.

## Physical Dimensions



## Mains Wiring

A maximum of 11 Phero 30 can be powered in Daisy-Chain. Please follow this table to select the best circuit breaker to protect your installation:

Circuit Breaker	Max. 73900	Max. 73901
B10	5	8
B16	8	11
C10	8	11
C16	11	11

## Technical Specifications

Item	73900	73901
Max Input Power	25VA	
Max Operating Power	18 Watt	
Input Voltage	180~264 VAC	90~132 VAC
Max. input Current	0.3A/230VAC	0.5A/115VAC
Operating Ambient Temperature	0°~40°C	
Max Light output (all leds 100%)	330 Lumens	
Diffuser	Diffused (standard) and Clear	
Viewing Angle	120°	
Number of Pixels	30	
RGB LEDs per Pixel	3	
Pitch (pixels)	33.3mm	
Pitch (LEDs)	11.1 mm	
Number of 5050 LEDs	90 (3xRGB leds per pixel)	
Item Weight	1.80 Kg / 3.96 lbs	
Packed Weight	2.02 Kg / 4.41 lbs	
IP Rating	IP40	
Body	Base: Aluminum extrusion Color: Sable Black	
Connectors	2x RJ45, 1x Blue Powercon, 1x Grey Powercon	



Due to continuous improvements, specifications and features are subject to change without notice.

## Ordering Information

Phero and compatible products can be ordered as follows:

PN	Description
73900	PHERO 30 PIXEL - EU (200~240VAC)
73901	PHERO 30 PIXEL - US (90~132VAC)
73903	PHERO END TO END JOINING KIT
73904	PHERO GRIPPLE HANGING (KIT)
70060	PIXELATOR
73541	PIXIE DRIVER
73545	PIXIELINKER

## Registration

Please register your ENTTEC product to get latest software updates and to validate your warranty.

To register, please visit [enttec.com/register](http://enttec.com/register)

# enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA



## ANNEX 1: Phero30 Recommended DMX Patch/Addressing Table (Daisy-Chain)

PHERO DAISY-CHAIN DMX PATCH/ADDRESSING TABLE												
Pixel #	Function	Phero # 1	Phero # 2	Phero # 3	Phero # 4	Phero # 5	Phero # 6	Phero # 7	Phero # 8	Phero # 9	Phero # 10	Phero # 11
1	Red	1	91	181	271	361	451	31	121	211	301	391
	Green	2	92	182	272	362	452	32	122	212	302	392
	Blue	3	93	183	273	363	453	33	123	213	303	393
2	Red	4	94	184	274	364	454	34	124	214	304	394
	Green	5	95	185	275	365	455	35	125	215	305	395
	Blue	6	96	186	276	366	456	36	126	216	306	396
3	Red	7	97	187	277	367	457	37	127	217	307	397
	Green	8	98	188	278	368	458	38	128	218	308	398
	Blue	9	99	189	279	369	459	39	129	219	309	399
4	Red	10	100	190	280	370	460	40	130	220	310	400
	Green	11	101	191	281	371	461	41	131	221	311	401
	Blue	12	102	192	282	372	462	42	132	222	312	402
5	Red	13	103	193	283	373	463	43	133	223	313	403
	Green	14	104	194	284	374	464	44	134	224	314	404
	Blue	15	105	195	285	375	465	45	135	225	315	405
6	Red	16	106	196	286	376	466	46	136	226	316	406
	Green	17	107	197	287	377	467	47	137	227	317	407
	Blue	18	108	198	288	378	468	48	138	228	318	408
7	Red	19	109	199	289	379	469	49	139	229	319	409
	Green	20	110	200	290	380	470	50	140	230	320	410
	Blue	21	111	201	291	381	471	51	141	231	321	411
8	Red	22	112	202	292	382	472	52	142	232	322	412
	Green	23	113	203	293	383	473	53	143	233	323	413
	Blue	24	114	204	294	384	474	54	144	234	324	414
9	Red	25	115	205	295	385	475	55	145	235	325	415
	Green	26	116	206	296	386	476	56	146	236	326	416
	Blue	27	117	207	297	387	477	57	147	237	327	417
10	Red	28	118	208	298	388	478	58	148	238	328	418
	Green	29	119	209	299	389	479	59	149	239	329	419
	Blue	30	120	210	300	390	480	60	150	240	330	420
11	Red	31	121	211	301	391	481	61	151	241	331	421
	Green	32	122	212	302	392	482	62	152	242	332	422
	Blue	33	123	213	303	393	483	63	153	243	333	423
12	Red	34	124	214	304	394	484	64	154	244	334	424
	Green	35	125	215	305	395	485	65	155	245	335	425
	Blue	36	126	216	306	396	486	66	156	246	336	426
13	Red	37	127	217	307	397	487	67	157	247	337	427
	Green	38	128	218	308	398	488	68	158	248	338	428
	Blue	39	129	219	309	399	489	69	159	249	339	429
14	Red	40	130	220	310	400	490	70	160	250	340	430
	Green	41	131	221	311	401	491	71	161	251	341	431
	Blue	42	132	222	312	402	492	72	162	252	342	432
15	Red	43	133	223	313	403	493	73	163	253	343	433
	Green	44	134	224	314	404	494	74	164	254	344	434
	Blue	45	135	225	315	405	495	75	165	255	345	435



16	Red	46	136	226	316	406	496	76	166	256	346	436
	Green	47	137	227	317	407	497	77	167	257	347	437
	Blue	48	138	228	318	408	498	78	168	258	348	438
17	Red	49	139	229	319	409	499	79	169	259	349	439
	Green	50	140	230	320	410	500	80	170	260	350	440
	Blue	51	141	231	321	411	501	81	171	261	351	441
18	Red	52	142	232	322	412	502	82	172	262	352	442
	Green	53	143	233	323	413	503	83	173	263	353	443
	Blue	54	144	234	324	414	504	84	174	264	354	444
19	Red	55	145	235	325	415	505	85	175	265	355	445
	Green	56	146	236	326	416	506	86	176	266	356	446
	Blue	57	147	237	327	417	507	87	177	267	357	447
20	Red	58	148	238	328	418	508	88	178	268	358	448
	Green	59	149	239	329	419	509	89	179	269	359	449
	Blue	60	150	240	330	420	510	90	180	270	360	450
21	Red	61	151	241	331	421	1	91	181	271	361	451
	Green	62	152	242	332	422	2	92	182	272	362	452
	Blue	63	153	243	333	423	3	93	183	273	363	453
22	Red	64	154	244	334	424	4	94	184	274	364	454
	Green	65	155	245	335	425	5	95	185	275	365	455
	Blue	66	156	246	336	426	6	96	186	276	366	456
23	Red	67	157	247	337	427	7	97	187	277	367	457
	Green	68	158	248	338	428	8	98	188	278	368	458
	Blue	69	159	249	339	429	9	99	189	279	369	459
24	Red	70	160	250	340	430	10	100	190	280	370	460
	Green	71	161	251	341	431	11	101	191	281	371	461
	Blue	72	162	252	342	432	12	102	192	282	372	462
25	Red	73	163	253	343	433	13	103	193	283	373	463
	Green	74	164	254	344	434	14	104	194	284	374	464
	Blue	75	165	255	345	435	15	105	195	285	375	465
26	Red	76	166	256	346	436	16	106	196	286	376	466
	Green	77	167	257	347	437	17	107	197	287	377	467
	Blue	78	168	258	348	438	18	108	198	288	378	468
27	Red	79	169	259	349	439	19	109	199	289	379	469
	Green	80	170	260	350	440	20	110	200	290	380	470
	Blue	81	171	261	351	441	21	111	201	291	381	471
28	Red	82	172	262	352	442	22	112	202	292	382	472
	Green	83	173	263	353	443	23	113	203	293	383	473
	Blue	84	174	264	354	444	24	114	204	294	384	474
29	Red	85	175	265	355	445	25	115	205	295	385	475
	Green	86	176	266	356	446	26	116	206	296	386	476
	Blue	87	177	267	357	447	27	117	207	297	387	477
30	Red	88	178	268	358	448	28	118	208	298	388	478
	Green	89	179	269	359	449	29	119	209	299	389	479
	Blue	90	180	270	360	450	30	120	210	300	390	480

Legend:

Universe 1

Universe 2