

RLG Docking Systems, Inc

www.rlgvdgs.com

THE FIRST VDGS MANUFACTURER OF THE WORLD

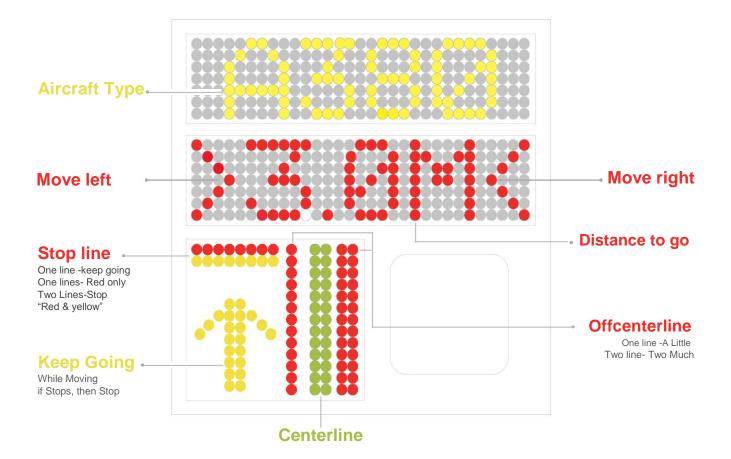
- Docking can be accomplished by either the pilot or the copilot.
- Alert is given if the aircraft approaching the gate is not the aircraft type set to be docking.
- Large 8 inch highly visible alphanumeric display for the pilot and the copilot.
- The familiar azimuth bar display format is used featuring large 12 inch high azimuth bars easily visible to the pilot or the copilot.
- The operator interface uses a full graphic display for the clarity of the information presentation.
- Optional multiple operator interface points per gate.
- Optional host computer communication options for reporting and control.
- Optional lockout input in the case that the passenger loading bridge is not parked.
- Optional lockout output to prevent the passenger loading bridge from moving until the aircraft is docked.
- Compliance to ICAO Annex 14 recommendations.

VDGS INTERIOR



SYSTEM OVERVIEW

The only existing AVDGS Systems brand fully complies ICAO Annex 14@ Follows Chapter 5.3.25.12



EQUIPMENT OPERATOR PANEL

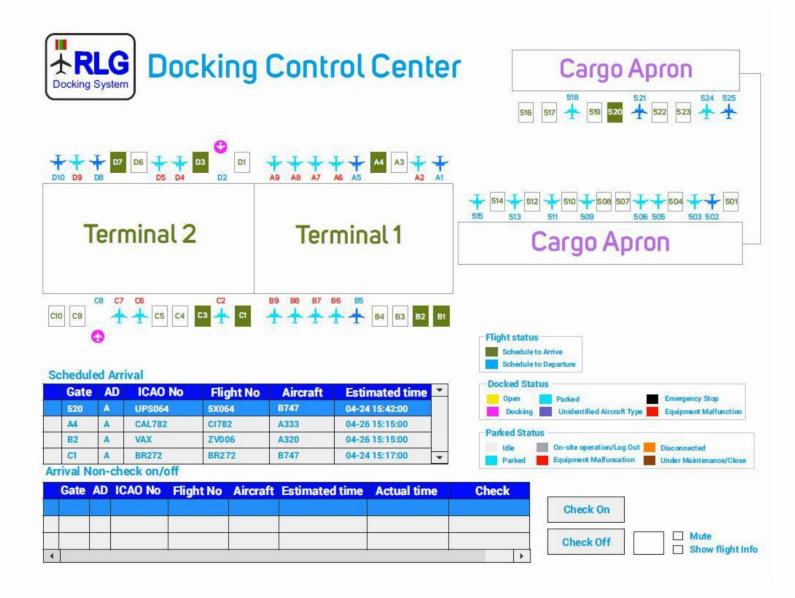
- Industrial grade color touch panel.
- One touch aircraft model selection, fast and convenient.
- Can be connected to computers for data maintenance and program updates.
- With Emergency Stop function.
- With Dead Man Switch function (Optional).





LIFE TIME STORAGE FOR DOCKING SYSTEM

- New user friendly.
- Windows Embedded PC Units.
- Be able to record real time log files.
- Be able to be supported thru internet.
- Ease-controlled touch screen.
- Real time azimuth & speed display.
- Operators or ground staffs can focus on one panel only with correct docking information.
- Easy steps for new aircraft model added.



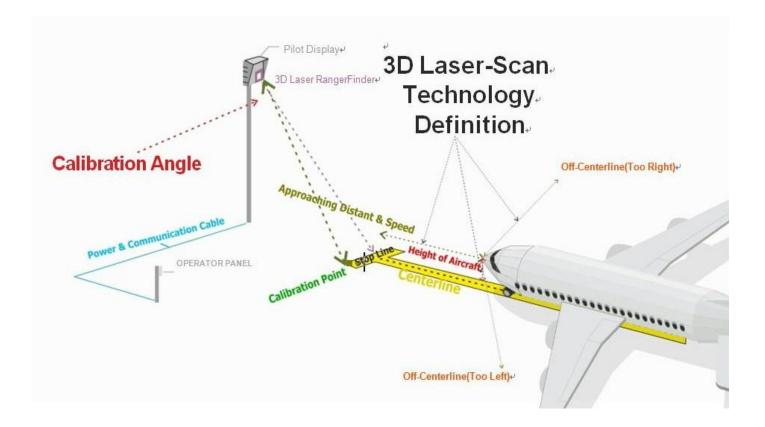
- Easy to monitor live time status of all & each gate.
- Intergrate live time video of each gate.
- Intergrate FOS or FIS Information for future billing system upgradable.
- Clear report system of all the status or events for management.
- Extremely accurate recording of every & each step by 10 mini-second timing.
- Ease for RLG technicians to diagnose the issues.
- Clarify the problem once it happened.
- Be able to report system self-checking.
- Optional interface with PBB, GPU, PCA, CCTV, Flight Information System & Lead in Lights
- Provide the information to GOS (Gate Operation System), can be linked online with SITA AMS and provides in billing information and RIDS Support



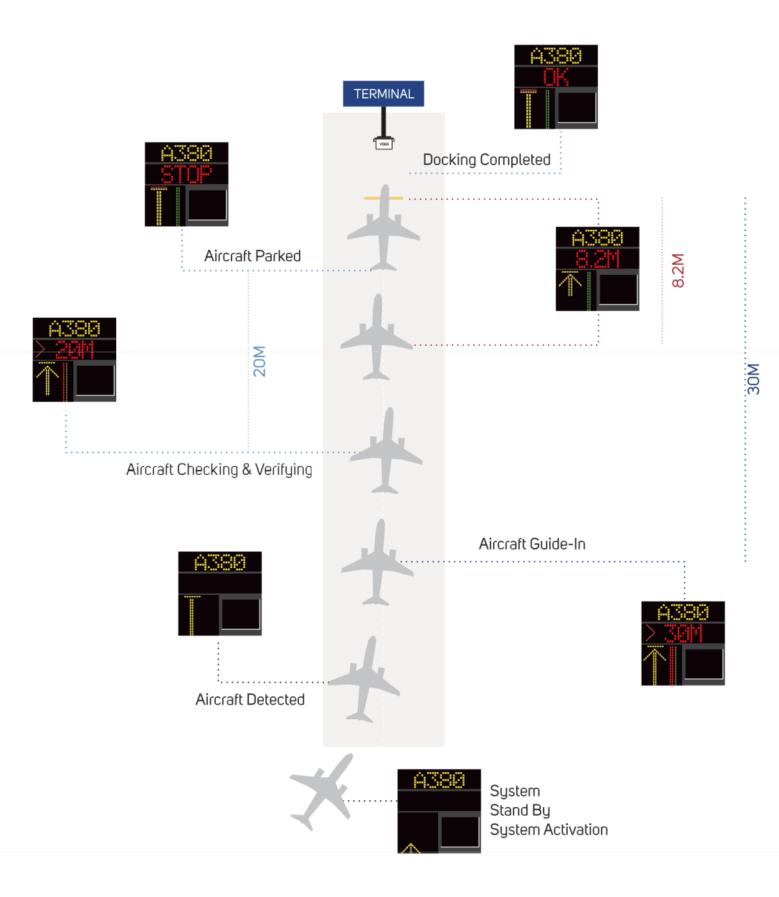
RLG Docking Systems Corporation is a manufacturer of Advanced Visual Docking Guidance Systems for Airports and have more than 1000 installations at various airports worldwide. RLG Docking Systems introduced the first automated guide-in system in the World in year 1969. It utilizes cutting-edge laser technology to reduce error margins and enhance ease-of-use and installation. All RLG docking systems fully comply with ICAO Annex 14 recommendations. RLG guide-in system can accommodate all aircraft types without the error factors resulting from variations in aircraft height and gross weight. The docking can be accomplished by either the pilot or the co-pilot.

CONCEPT DESIGN OF AVDGS SYSTEM

- A stand guidance system is a system which gives information to a pilot attempting to park an aircraft at an airport stand, usually via visual methods, leading to the term Visual Docking Guidance System (VDGS) and also A-VDGS (the A standing for advanced) This allows them to remain clear of obstructions and ensures that passenger boarding bridge (PBB) can reach the aircraft.
- The RLG GIS 206- 2 Laser Guided Docking System safely guides the parking aircraft to the precise parking position at an airport terminal. The use of a 2 axis scanning range finder laser allows the RLG GIS 206-2 to present the parking information to both the pilot and the copilot simultaneously. Since the azimuth display is electronically controlled, the information gathered from the laser scanner is presented in a display console that can be easily read by either the pilot or the co pilot such that either can dock the aircraft.
- Further, the RLG GIS 206-2 compares the features of the aircraft that is approaching the gate to a stored database of various aircraft types. The system is able to alert the pilot, the copilot and the ground staff when the aircraft approachingthegateisphysicallyinconsistentwiththeselectedaircrafttype.
- The GIS 206-2 main display console is attached to the terminal building or other support fixtures that precisely lined up with, and perpendicular to, the extension of the aircraft J-line or center line as that line would approach the terminal building or support fixtures
- This aligns the laser portion of the RLG GIS 206-2 with the azimuth center of the parking aircraft. The height above the tarmac should be determined such that the 7 inch high alphanumeric display will be at a height for comfortable viewing by the pilot whether in the shortest or the tallest aircraft that will be parked.
- After the display console unit is physically secured, there is an electronics canning and setup procedure to ensure that the system will give the best possible performance. This results in the RLG GIS 206-2 guiding the aircraft to a precise parking position at the terminal building



OPERATION



A COMPLETE AND SUCCESSFUL **DOCKING PROCEDURE CONSISTS OF 6 STAGES.**

a) System Standby

Turn ON the power from the Operator Panel, it will take less than 1 minute to complete the system boot-up. Upon completion, the system will go to Start-up screen and the system is ready for use.

b) System activation

Key-in the user password on the screen to log-on and access to the operation mode. Select require aircraft information on the screen and move to docking page. The selected aircraft type will appear on both the LED Display Console and Operator panel screen. The laser scanner is active now and the system is activated for aircraft docking.

c) Aircraft detected

When the aircraft approaching to the gate is detected, usually more than 40 meters from the stopping position, the azimuth green bar will display on the LED Display Console to alert the pilot.

d) Aircraft Guide-in

Aircraft guide-in information such as continuous closing distance and azimuth guidance will display on the LED Display when aircraft proceed slowly forward from the starting point of the centerline to the preprogrammed stopping position.

e) Aircraft checking & verification (OPTIONAL)

For Aircraft type ID verification features, When the aircraft slowly approaching to the stopping position, it must be identified and verified at least 12 meters before the correct stopping position. If this does not occur, the system will display "ID FAIL" followed by "STOP". At this point, the aircraft must be manually guided in by a mashaller.

f) Aircraft parked.

When the incoming aircraft reaches the preprogrammed stopping position, the LED Display will show "STOP" followed by "OK". If the aircraft has moved beyond the designated docking position and exceeded the pre-configured value, the LED Display will indicate "TOO FAR".

LIST OF SOME OF THE GLOBAL REFERENCES

NO.	YEAR	LOCATION	UNIT SUPPLIED	NO.	YEAR	LOCATION	UNIT SUPPLIE
1	2020	Krabi, Thailand	5	50	1995	Johannesburg, RSA	12
2	2019	Calicut, India	9	51	1995	Kaohsiung, Taiwan	12
3	2018	Amritsar,India	10	52	1995	Calgary, Canada	1
4	2018	Varanasi,India	3	53	1995	Colorado Springs	1
5	2018	Jaipur,India	6	54	1995	San Francisco	4
6	2018	Srinagar,India	1	55	1995	Xiamen, China	6
7	2018	Allahabad, India	2	56	1995	Saipan	2
8	2018	UBON, Thailand	1	57	1995	Ubon, Thailand	2
9	2018	Bangalore, India	1	58	1995	Fuzhou, China	7
10	2017	Yangon	2	59	1995	Penang, Malaysia	8
11	2016	Yangon	4	60	1995	Curitiba, Brazil	6
12	2014	C.K.S Taiwan	63	61	1995	Cebu, Philippines	1
13	2012	Kuala Lumpur	80	62	1994	Wuhan, China	3
14	2011	Taichung, Taiwan	5	63	1994	Cebu, Philippines	2
15	2010	Saipan	6	64	1994	Nashville	1
16	2007	Phuket, Thailand	4	65	1994	Chiang Rai, Thailand	1
17	2004	Cusco, Peru	4	66	1994	Edmonton, Canada	4
18	2004	Taipei, Taiwan	10	67	1994	Brazilia, Brazil	10
19	2004	Jakarta, Indonesia	24	68	1994	Jin Mien, Taiwan	3
20	2003	Changsha, China	10	69	1994	Singapore	5
21	2002	Belem, Brazil	5	70	1994	Kwang-Ju, Korea	2
22	2001	Batam, Indonesia	4	71	1993	Bangkok. Thailand	8
23	2001	Rio De Janero, Brazil	27	72	1993	Chiang Mai, Thailand	2
24	2001	Anchorage	1	73	1993	Chicago	27
25	2000	Beirut, Lebanon	5	74	1993	Saipan	2
26	1999	Taipei, Taiwan	2	75	1993	Denver	13
20	1999	Manila, Philippines	7	76	1993	St. Petersburg, Russia	3
28	1998		2	70	1993	San Francisco	1
		Ho Chi Min City, Vietnam					
29	1998	Baku. Azerbaijan	2	78	1993	Johannesburg, RSA	1
30	1998	Denver	8	79	1993	Singapore	17
31	1997	Yichang, China	2	80	1993	Calgary, Canada	2
32	1997	Sao Luis, Brazil	3	81	1992	Adelaide, Australia	1
33	1997	Hyderbad, India	4	82	1992	Phuket, Thailand	1
34	1997	Haikou, China	4	83	1992	Saipan	2
35	1997	Calgary, Canada	4	84	1992	Honolulu	4
36	1997	Beirut, Lebanon	5	85	1992	Baku, Azerbaijan	2
37	1997	Taipei, Taiwan	10	86	1992	Wuhan, China	3
38	1997	JFK, New York	11	87	1992	Taipei, Taiwan	11
39	1996	Quebec City, Canada	2	88	1991	Bali, Indonesia	4
40	1996	Guilin, China	7	89	1991	Shanghai, China	8
41	1996	Edmonton, Canada	1	90	1991	Taipei, Taiwan	1
42	1996	Los Angeles	5	91	1991	Maui, Hawaii	18
43	1996	Saipan	4	92	1991	Nassau, Bahamas	6
44	1996	Xiamen, China	5	93	1991	Phoenix	1
45	1996	Los Angeles	5	94	1991	Warsaw, Poland	8
46	1996	Denver	7	95	1991	Lisbon, Portugal	6
47	1995	Vancouver, Canada	11	96	1991	Montreal, Canada	1
48	1995	Brisbane, Australia	8	97	1991	Seoul, Korea	2
49	1995	Shun San, Taiwan	8	98	1990	Saipan	2

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NO.	VEAD	LOCATION	
NO. 99	YEAR 1990		UNIT SUPPLIED
99 100	1990 1990	Maui, Hawaii Kuala Lumpur	1
100	1990	Vancouver, Canada	2
101	1990	Montreal, Canada	2
102	1990		4
103	1990	Guangzhou, China Phoenix	4 37
104	1990	Philadelphia	12
105	1989	Edmonton, Canada	1
100	1989	Phoenix	1
107	1989	San Francisco	5
109	1989	Toronto, Canada	18
110	1989	Las Vegas	1
111	1989	Phuket, Thailand	2
112	1989	Hat Yai, Thailand	2
113	1989	Xian, China	3
114	1989	Calgary, Canada	2
115	1988	Sao Paula, Brazil	35
116	1988	Vancouver, Canada	1
117	1988	Honolulu	4
118	1988	Calgary, Canada	1
119	1988	Taipei, Taiwan	8
120	1988	Guangzhou, China	3
121	1987	Miami	19
122	1987	Singapore	14
123	1986	Manaus, Brasil	5
124	1986	Bangkok, Thailand	25
125	1986	Omaha	1
126	1986	Salt lake City	5
127	1985	Sao Paula, Brazil	22
128	1985	Halifax, Canada	4
129	1985	Salt Lake City	4
130	1984	Los Angeles	2
131	1984	Philadelphia	1
132	1984	Los Angeles	11
133	1984	Taipei, Taiwan	2
134	1983	Denver	3
135	1983	Taipei, Taiwan	8
136	1982	Anchorage	8
137	1982	Kuala Lumpur	14
138	1980	Manila, Philippines	14
139	1980	Jeddah, Saudi Arabia	6
140	1980	Seoul, Korea	8
141	1980	New York	11
142	1980	Singapore	22
143	1980	Helsinki, Finland	5
144	1980	Guam	4
145	1979	Portland	2
146	1977	Penang, Malaysia	6
147	1976	Portland	2

NO.	YEAR	LOCATION	UNIT SUPPLIED
148	1976	Anchorage	2
149	1976	Juneau	1
150	1976	Boise	1
151	1976	San Francisco	2
152	1975	Vancouver, Canada	1
153	1975	San Francisco	9
154	1975	Seattle	2
155	1975	Los Angeles	2
156	1974	Calgary, Canada	1
157	1974	San Francisco	2
158	1974	Seattle	2
159	1974	Los Angeles	5
160	1974	Las Vegas	3
161	1974	Denver	3
162	1973	Minneapolis	3
163	1973	Denver	3
164	1973	Seattle	3
165	1973	Portland	2
166	1973	Ketchikan	2
167	1973	Fairbanks	1
168	1973	Seattle	1
169	1973	Anchorage	3
170	1973	Houston	6
171	1973	Dallas	4
172	1972	Kansas City	3
173	1972	Portland	2
174	1971	Seattle	3
175	1971	Honolulu	21
176	1968	Los Angeles	6



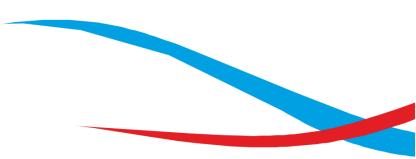
RLG GIS206-2 SPECIFICATIONS

Operator Panel Display Type Operator Panel Interface PC connectivity for maintenance Operator Panel IP level **Operator Panel Operation Temperature** Processor SO-DIMM up to 2GB USB HDD Display Type Power Input Construction **IP** Rating Net Weight Certification Operating System Support **Operator Panel Dimensions**

Color LCD Touch Panel Serial Communication RS 422/485 TCP/IP 10/100/1000 Base T IP 65 -25 ° C~ +55 ° C IntelR Atom Processor N2600 1.6GHz(or greater) 4x USB 8GB Cfast 8.4" TFT-LCD 12~24V DC Aluminum Front Bezel & SGCC IP65 front bezel 2.3kgs **CE/FCC Class/UL** Windows "400 mm(W) x 300 mm(H) x 150 mm (D) (Inner box box)665mm(W) x 600mm(H) x460mm(D) (Carton and fixed with ear)"

System PowerAC Input: 85~240V, 50Hz~60Hz, Auto Select<210 W	
Horizontal Scan+ /-15 degreesVertical Scan-5 (up) / +25 (down) degreesRange150 metersRange Accuracy0.2m at 150 meters; 0.1m at <50 meters	atts
Vertical Scan-5 (up) / +25 (down) degreesRange150 metersRange Accuracy0.2m at 150 meters; 0.1m at <50 meters	
Range150 metersRange Accuracy0.2m at 150 meters; 0.1m at <50 meters	
Range Accuracy 0.2m at 150 meters; 0.1m at <50 meters	
Azimuth Accuracy 0.2 degrees	
Stop Position Accuracy 0.1 meters	
Maximum Centerline supported 3	
Display Character Height 202 mm	
Display Visibility Distance 150 meters	
Display Type LED (3 colours)	
Pilot Display Panel Material Aluminum	
Pilot Display Console WeightApp 70kg (including Laser Unit)	
IP level Ip54	
System Operation Temperature -25 ° C~ +55 ° C	
System Operation Humidity 5% - 95% (non condensing)	
RIDS Support Yes(Optional)	
Wireless Support Yes, External USB Dongle, support 802.11n Wi-Fi	
Included Accessories "Q/G, Power Adapter, Power Cable, I/O Cable, CDRO	DM(User
Manual, Free Bundle NVR), Stand"	
Standards FCC Part15 SubpartB / CN EN5022 Class B, EN5502 RoHS/EMC	24 / LVD /
Pilot Display Console"1012mm(W)x1105mm(H)x650mm(D) (Carton and fix ear)940 mm(W)x1072 mm(H)x289 mm(D) (No housing	
Surveillance Camera 1 Surveillance Camera Standard Equipped in GIS-20 Optional Dual Cameras Support Available	•

NOTE: WE RESERVE THE RIGHT TO CHANGE THE SPECIFICATION WITHOUT NOTICE.





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EMC Tes	t Report of Commodi
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Worldwide Office

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