







Test Report issued under the responsibility of:



TEST REPORT IEC 60601-1-6 Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability	
Report Number..... :	210600863SHA-002
Date of issue..... :	2021-09-07
Total number of pages	15
Name of Testing Laboratory preparing the Report	Intertek Testing Services Shanghai
Applicant's name	GlobTek, Inc.
Address.....	186 Veterans Dr. Northvale, NJ 07647 USA
Test specification:	
Standard	IEC 60601-1-6:2010, AMD1:2013 for use in conjunction with IEC 62366:2007, AMD1:2014 and IEC 60601-1:2005, COR1:2006, COR2:2007, AMD1:2012
Test procedure	CB Scheme
Non-standard test method	N/A
TRF template used.....	IECEE OD-2020-F1:2020, Ed.1.3
Test Report Form No.	IEC60601_1_6I
Test Report Form(s) Originator	TÜV Rheinland of North America
Master TRF	Dated 2020-09-07
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Test item description	Medical Power Supply	
Trade Mark(s)	 GlobTek, Inc.	
Manufacturer	Same as applicant	
Model/Type reference	GT*961600P****, GT*961800P**** (Refer to general product information for details.)	
Ratings	Input: 100-240V~, 50-60Hz or 50/60Hz, 2.2A; Output: 12-54VDC, Max.13.33A, Max. 180W	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	Intertek Testing Services Shanghai
Testing location/ address.....		Building No.86, 1198 Qinzhou Road (North), 200233 Shanghai, China
Tested by (name, function, signature).....		Yann Yan / Kay Luo (Engineer)  
Approved by (name, function, signature)...		Jack Cheng (Mandated Reviewer) 
Testing procedure: CTF Stage 1:		
Testing location/ address.....		
Tested by (name, function, signature).....		
Approved by (name, function, signature)...		
Testing procedure: CTF Stage 2:		
Testing location/ address.....		
Tested by (name + signature)		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature)...		
Testing procedure: CTF Stage 3:		
Testing procedure: CTF Stage 4:		
Testing location/ address.....		
Tested by (name, function, signature).....		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature)...		
Supervised by (name, function, signature) :		

<p>List of Attachments (including a total number of pages in each attachment): ANNEX I – IEC 62366:2007 + A1:2014 – Usability engineering process checklist (Pages: 9)</p>	
<p>Summary of testing:</p>	
<p>Tests performed (name of test and test clause): None</p>	<p>Testing location: N/A</p>
<p>Summary of compliance with National Differences (List of countries addressed): The requirements of USA and Canada have been checked and found to include no national differences from the IEC 60601-1-6:2010, AMD1:2013.</p>	
<p><input checked="" type="checkbox"/> The product fulfils the requirements of IEC 60601-1-6:2010, AMD1:2013.</p>	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

See IEC 60601-1 Test Report No.210600863SHA-001.

Test item particulars.....	See IEC 60601-1 Test Report No.210600863SHA-001.
Classification of installation and use.....	See IEC 60601-1 Test Report No.210600863SHA-001.
Supply Connection	See IEC 60601-1 Test Report No.210600863SHA-001.
.....:	
Possible test case verdicts:	
- test case does not apply to the test object.....: N/A	
- test object does meet the requirement.....: P (Pass)	
- test object does not meet the requirement.....: F (Fail)	
Testing.....	
Date of receipt of test item : No test required.	
Date (s) of performance of tests : No test required.	
General remarks:	
<p>"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p> <p>This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60601-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	

Name and address of factory (ies) : See IEC 60601-1 Test Report No.210600863SHA-001.

General product information and other remarks:

See IEC 60601-1 Test Report No.210600863SHA-001.

IEC 60601-1-6			
Clause	Requirement + Test	Result - Remark	Verdict

4.0	GENERAL REQUIREMENTS		P
4.2	USABILITY ENGINEERING PROCESS complies with IEC 62366 including amended definitions. Excludes production and post-production monitoring, and maintenance of the USABILITY ENGINEERING PROCESS	See attached IEC 62366 ANNEX I	P
	Inspection of the USABILITY ENGINEERING FILE verified that the MANUFACTURER		P
	– established a USABILITY ENGINEERING PROCESS	QF-GT-DJD-7.3.2-10 Usability Engineering File P3/1.2	P
	– established acceptance criteria for USABILITY; and	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/1.15	P
	– demonstrated that the acceptance criteria for USABILITY have been met.	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/1.15	P

5	REPLACEMENT OF REQUIREMENTS GIVEN IN IEC 62366		P
	The instructions for use include a brief description of the ME EQUIPMENT, its physical operating principles and significant physical and performance characteristics relevant to its USABILITY	Refer to "POWER SUPPLY INFORMATION" and "ELECTRICAL SPECIFICATIONS" of SPEC	P
	The same information is also included in the technical description, if this is provided as a separate document from instructions for use		P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict

4	PRINCIPLES		P
4.1.1	The MANUFACTURER has established, documented and maintains a USABILITY ENGINEERING PROCESS addressing USER interactions with the MEDICAL DEVICE according to the ACCOMPANYING DOCUMENT	QF-GT-DJD-7.3.2-10 Usability Engineering File	P
4.1.2	The USABILITY ENGINEERING PROCESS complies with this standard and the acceptance criteria in the USABILITY VALIDATION plan have been met	QF-GT-DJD-7.3.2-10 Usability Engineering File	P
4.1.3	Information for SAFETY used as a RISK CONTROL measure has been evaluated according to the USABILITY ENGINEERING PROCESS	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/1.15	P
4.2	The results of the USABILITY ENGINEERING PROCESS are recorded in the USABILITY ENGINEERING FILE	QF-GT-DJD-7.3.2-10 Usability Engineering File	P
4.3	The USABILITY ENGINEERING PROCESS is scaled-up or scaled-down based on the significance of the modification as determined by the results of the RISK ANALYSIS	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Section 6	P

5	USABILITY ENGINEERING PROCESS		P
5.1	The application of the MEDICAL DEVICE is specified in the USABILITY ENGINEERING FILE	QF-GT-DJD-7.3.2-10 Usability Engineering File	P
	– intended medical indication	QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.4	P
	– intended PATIENT population	QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.4	N/A
	-- intended part of the body or type of tissue applied to or interacted with	QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.4	N/A
	– intended USER PROFILE	QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.5	P
	– intended conditions of use	QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.6	P
	– operating principle	QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.7	P
5.2	The frequently used functions that involve USER interaction with the MEDICAL DEVICE are recorded in the USABILITY ENGINEERING FILE	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P6/Section 2	P
5.3.1	The MANUFACTURER identified characteristics related to SAFETY that focus on USABILITY	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P6/Section 2	P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict
5.3.2	The MANUFACTURER identified known or foreseeable HAZARDS related to USABILITY	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P6/Section 2	P
	Reasonably foreseeable sequences or combinations of events involving the USER INTERFACE that can result in a HAZARDOUS SITUATION associated with the MEDICAL DEVICE are identified	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P6/Section 2	P
	The SEVERITY of the resulting possible HARM was determined	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P6/Section 2	P
5.4	The MANUFACTURER determined the PRIMARY OPERATING FUNCTIONS and recorded them in the USABILITY FILE	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.7	P
	The inputs to the PRIMARY OPERATING FUNCTIONS included frequently used functions and functions related to SAFETY of the MEDICAL DEVICE	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.7	P
5.5	The MANUFACTURER developed the USABILITY SPECIFICATION	See Table 5.5 QF-GT-DJD-7.3.2-10 Usability Engineering File P6/1.18	P
5.6	The MANUFACTURER prepared a USABILITY VALIDATION plan	See Table 5.6 QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4	P
5.7	The MANUFACTURER designed and implemented the USER INTERFACE as described in the USABILITY SPECIFICATION	See 5.8 and 5.9 QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 3	—
5.8	The MANUFACTURER verified the implementation of the MEDICAL DEVICE USER INTERFACE design against the requirements of the USABILITY SPECIFICATION	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P6/1.16	P
5.9	The MANUFACTURER VALIDATED USABILITY of the MEDICAL DEVICE according to the USABILITY VALIDATION plan	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4	P
	If the acceptance criteria are not met and no further improvements are practicable, the medical benefits outweigh the risk	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4	P
5.10	USER INTERFACE OF UNKNOWN PROVENANCE (UOUP) was evaluated according to Annex K rather than the requirements of 5.1 through 5.9.	See Annex K below	P
6	ACCOMPANYING DOCUMENT		P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict
	If provided, the ACCOMPANYING DOCUMENT includes a summary of the application specification		P
	If provided, the ACCOMPANYING DOCUMENT includes a concise description of the ME EQUIPMENT, its operating principles and significant physical and performance characteristics, and intended USER PROFILE	Reference to instructions for use SPEC: P3-4 QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.7	P
	If provided, the ACCOMPANYING DOCUMENT is written at a level consistent with the USER PROFILE.	English	P
	If the ACCOMPANYING DOCUMENT is provided electronically, the USABILITY ENGINEERING PROCESS included consideration of which information also needs to be provided as hard copy or as markings on the MEDICAL DEVICE		P

7	TRAINING AND MATERIALS FOR TRAINING		P
	When training is required for the safe and effective use of PRIMARY OPERATING FUNCTIONS, the ACCOMPANYING DOCUMENT describes the available training options	QF-GT-DJD-7.3.2-10 Usability Engineering File P9/7.2	P
	When training is required, the INTENDED USE and USER PROFILE(S) are the basis for training and training material	QF-GT-DJD-7.3.2-10 Usability Engineering File P9/7.2	P

Annex K	Evaluation of a USER INTERFACE OF UNKNOWN PROVENANCE (UOUP)		P
K.2.1	The MANUFACTURER established an application specification as required in 5.1.	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File	P
K.2.2	The MANUFACTURER identified the PRIMARY OPERATING FUNCTIONS of the MEDICAL DEVICE with UOUP as required by 5.4.	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.7	P
K.2.3	Relevant instances of USE ERROR are recorded in the USABILITY ENGINEERING FILE and addressed in K.2.4 and K.2.5.	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P8/section 6	P
K.2.4	The MANUFACTURER reviewed the RISK ANALYSIS of the MEDICAL DEVICE with UOUP. The HAZARDS and HAZARDOUS SITUATIONS associated with USABILITY or with PRIMARY OPERATING FUNCTIONS were identified.	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P8/section 6	P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict
K.2.5	The MANUFACTURER verified that adequate RISK CONTROL measures were implemented for all identified HAZARDS and HAZARDOUS SITUATIONS identified in K.2.4.	Document Reference No. in USABILITY ENGINEERING FILE: QF-GT-DJD-7.3.2-10 Usability Engineering File P8/section 6	P
	Changes to the USER INTERFACE were made to reduce RISK to an acceptable level, and those changes meet the requirements of 5.1 through 5.9.	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/section 6	P
K.2.6	The MANUFACTURER re-evaluated the overall RESIDUAL RISK according to ISO 14971:2007, 6.4.	Document Reference No. in USABILITY ENGINEERING FILE or RISK MANAGEMENT FILE: GT-RM2018-001	P
K.2.7	The ACCOMPANYING DOCUMENT of the UOUP contains an adequate summary of the application specification.	QF-GT-DJD-7.3.2-10 Usability Engineering File	P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict

Table 5.3.1	USABILITY ENGINEERING FILE RESULTS TABLE: Characteristics related to SAFETY			P
		Document Ref. in USABILITY ENGINEERING FILE	Result - Remarks	Verdict
An identification of characteristics related to SAFETY that focused on USABILITY was performed according to ISO 14971:2007, Clause 4.2		QF-GT-DJD-7.3.2-10 Usability Engineering File		P
During the identification of characteristics related to SAFETY, the following was considered:				—
– application specification, including USER PROFILE(S)		QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.5		P
– frequently used functions		QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.6		P

Table 5.3.2	USABILITY ENGINEERING FILE RESULTS TABLE: Identification of known or foreseeable HAZARDS and HAZARDOUS SITUATIONS			P
		Document Ref. in USABILITY ENGINEERING FILE	Result - Remarks	Verdict
Identification of known or foreseeable HAZARDS related to USABILITY according to ISO 14971:2007, Cl. 4.3		QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Annex A		P
The identification of HAZARDS considers HAZARDS to PATIENTS, USERS and other persons		QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Annex A		P
Reasonably foreseeable sequences or combinations of events involving the user interface that can result in a HAZARDOUS SITUATION associated with the MEDICAL DEVICE are identified		QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Annex A		P
The SEVERITY of the resulting possible HARM was determined		QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Annex A		P
During the identification of HAZARDS and HAZARDOUS SITUATIONS, the following was considered:				—
– application specification, including USER PROFILE(S)		QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict

Table 5.3.2	USABILITY ENGINEERING FILE RESULTS TABLE: Identification of known or foreseeable HAZARDS and HAZARDOUS SITUATIONS		P
	Document Ref. in USABILITY ENGINEERING FILE	Result - Remarks	Verdict
– task related requirements	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
– context of use	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
– information on HAZARDS and HAZARDOUS SITUATIONS known for existing USER INTERFACES of MEDICAL DEVICES of a similar type, if available	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
– preliminary USE SCENARIOS	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
– possible USE ERRORS	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
– if an incorrect mental model of the operation of the MEDICAL DEVICE can cause a USE ERROR resulting in a HAZARDOUS SITUATION	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
– results of the review of the USER INTERFACE	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P

Table 5.5	USABILITY ENGINEERING FILE RESULTS TABLE: USABILITY SPECIFICATION		P
	Document Ref. in USABILITY ENGINEERING FILE	Result - Remarks	Verdict
USABILITY SPECIFICATION	QF-GT-DJD-7.3.2-10 Usability Engineering File		P
The USABILITY SPECIFICATION provides:			—
– testable requirements for USABILITY VERIFICATION	QF-GT-DJD-7.3.2-10 Usability Engineering File P7/Section 3		P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict

Table 5.5	USABILITY ENGINEERING FILE RESULTS TABLE: USABILITY SPECIFICATION		P
	Document Ref. in USABILITY ENGINEERING FILE	Result - Remarks	Verdict
– testable requirements for USABILITY of PRIMARY OPERATING FUNCTIONS including criteria for determining the adequacy of RISK CONTROL achieved by the USABILITY ENGINEERING PROCESS.	QF-GT-DJD-7.3.2-10 Usability Engineering File P7/Section 3		P
Inputs to the USABILITY SPECIFICATION include the following:			—
– application specification	QF-GT-DJD-7.3.2-10 Usability Engineering File P6/Section 2		P
– PRIMARY OPERATING FUNCTIONS	QF-GT-DJD-7.3.2-10 Usability Engineering File P4/1.7		P
– HAZARDS and HAZARDOUS SITUATIONS related to USABILITY	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 6		P
– known or foreseeable USE ERRORS associated with the MEDICAL DEVICE	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
The USABILITY SPECIFICATION describes:			—
– USE SCENARIOS related to the PRIMARY OPERATING FUNCTIONS	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 6		P
– frequent USE SCENARIOS	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 6		P
– reasonably foreseeable worst case USE SCENARIOS	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P
– USER INTERFACE requirements for the PRIMARY OPERATING FUNCTIONS, including those to mitigate RISK	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A		P

ANNEX I - IEC 62366:2007 + A1:2014 – Usability engineering process checklist			
Clause	Requirement + Test	Result - Remark	Verdict

Table 5.5	USABILITY ENGINEERING FILE RESULTS TABLE: USABILITY SPECIFICATION			P
	Document Ref. in USABILITY ENGINEERING FILE	Result - Remarks	Verdict	
– requirements for determining whether PRIMARY OPERATING FUNCTIONS are easily recognizable by the USER.	QF-GT-DJD-7.3.2-10 Usability Engineering File P5/Annex A			P

Table 5.6	USABILITY ENGINEERING FILE RESULTS TABLE: USABILITY VALIDATION plan			
	Document Ref. in USABILITY ENGINEERING FILE	Result - Remarks	Verdict	
USABILITY VALIDATION plan	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4			P
The USABILITY VALIDATION plan specifies:				—
– any method used for VALIDATION of the USABILITY of PRIMARY OPERATING FUNCTIONS	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4			P
– the criteria for determining successful VALIDATION of the USABILITY of the PRIMARY OPERATING FUNCTIONS based on the USABILITY SPECIFICATION	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4			P
– the involvement of representative intended USERS	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4			P
The USABILITY VALIDATION plan addresses:				—
– frequent USE SCENARIOS	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4			P
– reasonably foreseeable worst case USE SCENARIOS identified in the USABILITY SPECIFICATION	QF-GT-DJD-7.3.2-10 Usability Engineering File P8/Section 4			P