



NVLAP ACCREDITED
NARTE Certified Engineer
Professional Engineer

Federal Communications Commission

Equipment Approval Services, P.O. Box 358315
Pittsburgh, PA 15251-5315
Attention: Authorization & Evaluation Division

Re: Application for Certification of Gentex Corporation Transmitter under 47CFR 15.231.
FCC ID: **NZLACHL3**

Gentlemen:

On behalf of the applicant, Gentex Corporation, please find attached the submittal materials for certification of the Universal Garage Door Opener transceiver in an NVS● Mirror. The model is NZLACHL3. This unit is capable of learning the current garage door transmit frequencies from 288MHz through 420MHz except in the forbidden frequency regions.

The complete List of the Exhibits in this submittal package appears on Page 2 of this cover letter.

The Federal Communications Commission will be notified, in writing, of any changes in the software/programming of the device that could affect the device's RF characteristics.

A copy of a 'Power of Attorney' is included to demonstrate that AHD has been authorized to provide the service of preparing this application.

Your prompt consideration of this application for product certification will be greatly appreciated. Should you have any questions regarding the content of this report, kindly contact me.

Sincerely,

A handwritten signature in black ink that reads 'Ted Chaffee'.

Ted Chaffee,
Technical Lab Manager
Narte Certified Engineer, #EMC-002025-NE
tel/fax: 269. 424.7014
email: tchaffee@ahde.com

Table of Contents

Cover Letter / Table of Contents		Total Pages	2
Letter of Request of Confidentiality		Total Pages	1
EXHIBIT A:			
ID Label / Location [2.925,2.926,2.1033(b2,7),15.19(a3)]			
EXA_Label.doc, EXA_Labellocation.pdf		Total Pages	2
EXHIBIT B:			
Description of Product [2.1033(b6)]	EXB_desc.doc	Total Pages	1
Description of Operation [2.1033(b4)]	EXB_operation.doc	Total Pages	1
Circuit Block Diagram [2.1033(b5)]	EXB_Blockdiagram.doc	Total Pages	1
Schematics [2.1033(b5)]	EXB_schematic.pdf	Total Pages	8
EXHIBIT C:			
Product photos	ten photos	Total Pages	10
:	Interior & Printed Circuit Boards [2.1033(b7)]	Eight photos	
	EXC_3PCBtop.jpg, EXC_3PCBbtm.jpg, EXC_LCDPCBtop.jpg		
	EXC_HL3PCBtop.jpg, EXC_HL3PCBbtm.jpg, EXC_LCDPCBbtm.jpg		
	EXC_CPUPCBtop.jpg, EXC_CPUCBbtm.jpg		
	Exterior views [2.1033(b7)]	Two photos	
	EXC_Mirrorfrnt.jpg, EXC_Mirrorrear.jpg		
EXHIBIT D:			
User's Manual	EXD_UserManual.doc	Total Pages	6
EXHIBIT E:			
Setup photos [2.1033(b8)]	Four photos	Total Pages	4
	EXE_pretest.jpg, EXE_side.jpg, EXE_end.jpg, EXE_flat.jpg		
Report of Measurements [2.1033(b6)]		Total Pages	28
Table of Contents	Page 2		
Manufacturer/Applicant [2.1033(b1)]	Page 4		
Measurement/Test Facility & Equipment	Page 4		
Configuration/Setup [2.1033(b8)]	Page 5		
Test Standards / Methods Used [2.1033(b6)]	Page 8		
Test Methodology [2.1033(b6)]	Page 8		
Test Data [2.1033(b6)]			
	Summary of Results	Page 6	
	Level vs Supply Voltage [15.31(e)]	Page 14	
	Occupied Bandwidth	Page 15	
	Radiated Field Strength [15.231(b)]	Page 17	
Misc. EXHIBIT:			
RF Exposure Information [2.1093(c)]		Total Pages	1
Tuning Information [2.1033(b5)]		Total Pages	1