2018年拉瓦乐虚拟现实参展展品统计 AVIC Group in Laval-Virtual 2018

序号Series	展品名称 Displayed Products	数量 Quantity	展品参数 Parameters	产品介绍 Introduction
1	cave系统解决方案 Cave system solution	1	LP80US激光投影机1台或2台 4*2.5m抗光直幕*1 **光学传感器***1，手柄*n **主机**1台，2通道融合器1个 LP80US laser projectors * 1 or 2 (4 * 2.5m light curtain) * 1 Optical Sensor * 1, Handle * n Host * 1, 2-channel mixer * 1	该方案通过超短焦激光投影机，在抗光幕融合投影，并利用计算机生成一种虚拟演示环境，使**用户沉浸到该环境中。该方案构建**“真实”的虚拟环境，打破空间的限制，适用于教育、军事、工业等领域。 The program immerses users in the environment with ultra-short focal laser projectors, floodlighting projection screens, and virtual presentation environments using computers. It builds a "real" virtual environment that breaks the space constraints and is suitable for education, military, industrial and other fields.
2	空战模拟系统 Air combat simulation system	1	LP40US激光投影机+支架1套 **飞机座椅**+摇杆1套 VR眼镜1套 LP40US laser projector , bracket * 1 Aircraft seat , rocker * 1	**该方案通过**VR眼镜体验空战模拟系统，并将体验者的视角在投影机上呈现 People experience air combat simulation system through VR glasses and the system presents the experiencer's perspective on the projector.
3	激光投影大屏解决方案 Solution of large screen with laser projection	1	LP40US激光投影机*2 4*1.4抗光幕*1 **主机**1台，2通道融合器1个 LP40US Laser Projector * 2 (4 * 1.4 Light Curtain) * 1 Host *1, 2-channel mixer * 1	该方案为性价比极高的室内大屏解决方案，通过超短焦激光投影机在抗光屏融合投影，该方案**显示效果不输于**LED液晶显示屏，且色彩更加自然，更接近真实色彩。同时在性价比、能耗、护眼等方面拥有其他显示技术不可比拟的优势，适用于监控、智控系统、会商系统。 The program is a highly cost-effective indoor large-screen solution. The ultra-short focal laser projector is used in the anti-light-screen fusion projection. It shows that the effect is not lost on the LED LCD, and the color is more natural and closer to the true color. At the same time in the price, energy consumption, eye protection and other aspects of the incomparable advantages of other display technologies for monitoring, intelligent control systems, business systems.
4	多媒体互动投影解决方案 Multimedia interactive projection solution	1	LP30ES激光投影机*1 **电子白板***1，笔记本*1 LP30ES laser projector * 1 Whiteboard * 1, notebook * 1	该方案集投影和白板为一体，在很近的距离就可投影，无遮挡，无阴影，也不会有光线刺眼。**该方案既可以作为投影，播放课件**、PPT，同时也是一块白板，通过红外触摸边框，可以直接操作，书写、图画，十分方便。适用于培训、会商。 The program set projection and whiteboard as a whole.It can be projected in a very close distance , no shelter, no shadow, there will be no glare. And it not only can be used as a projection, play courseware, PPT, but also a whiteboard, through the infrared touch frame, you can direct operation, writing, drawing, very convenient. For training, consultation.
5	**面向增强合成视景系统的**VR人机工效验证平台 VR ergonomic validation platform for enhanced synthetic visualization	1	**头盔显示器**1台-HTC-VIVE- **双目**2160*1200分辨率、90Hz分辨率 **图形工作站**1台—GTX1080以上-8G显存-2560 CUDA核心 **增强合成视景系统处理单元**1套-TegraX1 处理器-256核心-4K显示分辨率 Helmet Display * 1-HTC-VIVE-binocular 2160 * 1200 resolution, 90Hz resolution; Graphic workstation * 1-GTX1080 -8G memory -2560 CUDA core; Enhanced Synthetic View System Processing Unit * 1-TegraX1 Processor-256 Core-4K Display Resolution	虚拟现实技术能够生成平时难以体验的沉浸感恶劣飞行环境，尤其可以模拟低能见度条件下进近着陆等飞行过程。增强合成视景系统通过高速交换网络与虚拟现实验证平台进行互动，传送飞行过程中多源信息融合的增强现实前视视频画面，并实时投射在虚拟现实座舱显示器上，帮**助飞行员看清跑道，完成低能见度环境下的进近着陆过程。该平台通过人在回路**（Human-In-The-Loop）的方式验证低能见度条件下进近着陆过程中增强合成视景系统的人机工效，同时可以扩展到其它机载嵌入式系统的人机工效验证应用。 Virtual reality technology can generate the immersive harshness of the flight environment, which is hard to be experienced in real time. In particular, it can simulate flight processes such as approach and landing under low visibility conditions.The enhanced synthetic visual system interacts with the virtual reality verification platform through a high-speed switching network to deliver augmented reality forward looking video images of multi-source information during flight and is projected in real time on a virtual reality cockpit display to help pilots see the runway and finish approach and landing process in low visibility
6	汽车平显 Head Up Display	2	a) 显示视场（FOV）：14° ×7°； b) 显示颜色：全彩色；c) 工作波长： 400nm-700nm； d) 分辨率：486×240； e) RAM内存：1G； f) FLASH存储：8GB g) 外部通讯：BT/WIFI/OBD； h) GPS导航精度：不大于10m。 a) Display Field of View (FOV): 14 ° × 7 ° ; b) Display color: full color; c) Working wavelength: 400nm-700nm; d) Resolution: 486 × 240; e) RAM memory: 1G; f) FLASH storage: 8GB; g) External communication: BT / WIFI / OBD; h) GPS navigation accuracy: not more than 10m.	**“龙之眼”**汽车平显共含展示（平视显示）和车况数据接案（OBD接口）两个基本要素，可以作为车联网的终端设备接入车联网系统，结合后端动态信息云处理平台的使用，为用户带来车联网技术的种种便捷服务。 **“龙之眼”**汽车平显，我们设计的目标是“安全驾驶，使每一辆汽车都成为智能汽车”。 安全、智能、舒适是我们产品设计的主要特点： 安全： ● 平视显示，专注前方视野 ● 路径导航，目的地了然于胸 ● 车速转速油耗，驾驶状态实时掌控 ● 来电来信显示提醒，告别手忙脚乱 ● 侧视辅助视频补偿，弥补转弯变道后视镜盲区 ● 红外/微光叠加，夜间视野犹如白天 智能： ● **语音**/手势掌控一切，导航变更、地点搜索、电话接听拨打、短信播报回复，你的心思它总明**白** ● 实时路况更新，智能路径规划，变堵为通有绝招 ● 支持显示画面个人定制，总能找个适合自己的“范” ● 爱车一键体检，呵护备至 舒适： ● 清晰生动的显示画面，战斗机般视觉体验 ● 车联网技术入口，智慧、舒适驾车体验 "Eye of the Dragon" car flat was equipped with display (head-up display) and vehicle data collection (OBD interface) two basic elements that can be used as car networking terminal equipment access car networking system and combined with the back-end dynamic information cloud processing platform to bring users a variety of car networking technology and convenient services. "Eye of the Dragon" car flat display,the goal we designed is "safe driving,every car will become a smart car." Safety, intelligence and comfort are the main features of our product design: Safety: ● Head-up display, focus on the front field of vision ● path navigation, the destination is clear in your mind ● speed,fuel consumption and driving status will be controled in real time ● Call letter display reminder, say "bye" to hurry ● Side-view auxiliary video compensation, make up the turn-blind mirror blind zone ● Side-view video aided, eliminating turn blind change mirror rear blind spot ● Infrared / low light superposition, night vision is very clear Intelligence:
7	头位跟踪系统 Head tracking system	1	定位范围： **方位角**：-120° ～+120° **俯仰角**：-60～+60° **定位精度**：8mrad **刷新率**：50HZ 活动框： **前后**：-100～+200 **左右**：-200～+200 **上下**：-100～+100 Positioning range: Azimuth: -120 ° ~ + 120 ° Pitch angle: -60 ~ +60 ° Positioning accuracy: 8mrad Refresh rate: 50HZ Activity box: Before and after: -100 ~ +200 About: -200 ~ +200 Up and down: -100 ~ +100	高精度头部跟踪系统，采用摄像机定位技术，可以快速精确测量头部转动相对于基准的姿态角，通过与后端传感器的交互，可以实现引导各个传感器进行精确随动。可应用于智能控制、安**全驾驶及**3D游戏等方面 The high-precision head tracking system with camera positioning technology which can quickly and accurately measure the head rotation relative to the baseline attitude angle through the interaction with the back-end sensor to achieve guidance for each sensor to accurately follow.It can be applied to intelligent control, safe driving and 3D games and so on.
8	**宝马汽车**VR展厅演示 BMW VR showroom presentation	1	计算机一台 HTC vive一台 Computer * 1 HTC vive * 1	
9	警用扫描装备 Police scanning equipment	1	**设备尺寸**0.5m*o.5m*0.5M Equipment size 0.5m * o.5m * 0.5M